



GOVERNMENT OF PUERTO RICO  
Puerto Rico Highway and Transportation Authority

2021

# Unified Planning Work Program for Fiscal Year 2022 and Fiscal Year 2023

PUERTO RICO METROPOLITAN PLANNING ORGANIZATION (MPO)  
FOR SAN JUAN, AGUADILLA, AND URBANIZED AREAS UNDER  
200,000



**AMENDMENT #1**  
MARCH 2022

Puerto Rico Unified Planning Work Program 2022-2023  
AMENDMENT #1

*"The preparation of this report was financed in part through a grant from the Federal Transit Administration (FTA), of the U.S. Department of Transportation, administered by the Puerto Rico Highway and Transportation Authority (PRHTA)."*

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## EXECUTIVE SUMMARY

The Puerto Rico Unified Planning Work Program (UPWP) for Fiscal Year 2022 and Fiscal Year 2023 presents the planning activities with federal funds by the state, municipalities, and agencies for the San Juan Metropolitan Area, the Aguadilla Metropolitan Area and all Urbanized Areas Under 200,000 Population. This Unified Planning Work Program is a two-year transportation planning work program detailing transportation planning, programs, and activities to be performed by the Puerto Rico Metropolitan Planning Organization (PRMPO) for the period of October 1, 2021, to September 30, 2023.

The planning activities are usually defined in four work elements composed of recurring and non-recurring tasks. Thus, the planning funds are distributed in the following elements: 1-Program Administration and Planning Support Activities; 2-Long Range Transportation Plan, 3- Special Project Planning (transportation planning studies, non-recurring activities); 4- Data Collection.

The UPWP includes a description of the planning work and resulting products, who will perform the work, time frames for completing the work, the cost of the work, and the source(s) of funds.

The Puerto Rico Highway and Transportation Authority (PRHTA) is the designated recipient of the planning grant funds from Federal Highway Administration (FHWA) funds, also known as "PL" or planning funds, and Federal Transit Administration (FTA) Section 5305(d) funds. The PL Funds (FHWA) are programmed in the Puerto Rico State Planning and Research Program (PR-SPR). The planning tasks description and budget of the PR-SPR are currently approved for fiscal year 2021 for the San Juan and Aguadilla TMA's can be found in the State Planning & Research Program under tasks 614 and 615. A copy of these tasks can be found in Appendix B.

Finally, on December 2020, FHWA and FTA held a Transportation Management Area (TMA) Certification Review, under provision of 23 CFR 450.334 and 49 CFR 613.334, of the transportation planning process of the San Juan and Aguadilla TMA. A final report of the certification review was completed on April 26, 2021. The activities listed under the administration work element of this UPWP are focused in continued compliance with FTA requirements.

## Introduction: UPWP 2022-2023

The Federal Transit Administration (FTA) C 8100.1D circular defines the Unified Planning Work Program (UPWP) as a: program of work identifying the planning priorities and activities to be carried out within a Metropolitan Planning Area. At a minimum, UPWP covers a 1-2-year period and includes: a description of the planning work and resulting products, the organization that will be responsible of performing the work, time frames for completing the work, the cost of the work, and the sources of funds (FTA C 8100.1D).

According to FTA C 8100.1D, a UPWP is focused on a single metropolitan area and is developed by the Metropolitan Planning Organization (MPO) within that area. But in Puerto Rico there is one UPWP that integrates the planning activities of the San Juan Urbanized Area, Aguadilla Urbanized Area and the Urbanized Areas Under 200,000.

Annually the MPO staff updates the UPWP as required by state and federal regulation. The UPWP is a task-based budget outlining all major transportation planning activities to be undertaken by the members of the MPO. For each task the purpose, previous work accomplishments, project description and methodology, responsible person and agency, and the funding source(s) are identified. This UPWP grouped the task in four work elements:

Table 1. Index of Work Elements

1-Program Administration and Planning Support Activities	This includes tasks required to manage the transportation planning process on a continuing basis. Tasks included: UPWP development and Planning Program Administration (Section 5303/5304 funds for Metropolitan and Statewide Planning Program), Staff Support to the MPO, Development of the Transportation Improvement Program for the SJUA, AUA, and UZAs, and public involvement activities. This is a recurring planning activity.
2-Puerto Rico 2050 Long Range Administration	Maintain a multimodal LRTP, financially feasible, consistent with the goals and keep track of the establish performance measures.
3- Special Project Planning	New transportation system planning studies. Non-recurring planning studies.
4- Data Collection	The basic data collection consists of reporting the data of the "Públicos" for the National Transit Data Base: 1-Públicos Data Collection (ridership, vehicle miles traveled, e.g.); 2-Safety and Security (Públicos incidents data collection).

Tasks in this UPWP are generally funded with Federal Transit Administration Funds, particularly from Section 5303 and 5304. All projects included in this UPWP that



have not yet disbursements, will be funded with Toll Credits to fulfill their local match.

**Table 2. The 2020, 2021 and 2022 FTA Apportionments**

	FY 2020	FY 2021	FY 2022 (partial year)	Total
Section 5303	\$1,821,037.00	\$1,728,950.00	\$666,180.00	\$4,216,167.00
Section 5304	\$353,325.00	\$378,913.00	\$136,195.00	\$868,433.00
<b>Total</b>	<b>\$2,174,362.00</b>	<b>\$2,107,863.00</b>	<b>\$802,375.00</b>	<b>\$5,084,600.00</b>

**Table 3. FTA Section 5304 and Local Match Funds**

Section 5304	80% FTA	20% Local	100% Federal Match
	\$254, 220.00	TDC	\$254, 220.00

**Table 4. Summary Table of Tasks and Funding in this UPWP Document: Section 5304**

Task/ Sub- tasks	Description		Two Years Program		Total Estimated Cost	Remarks
			2022	2023	Est. Cost	
1	Adm-UPWP and Grant Administration	F	\$ 25,000.00	\$ 25,000.00	\$ 50,000.00	Funds are awarded in grant PR-2021-042-00
		S				
		T	\$ 25,000.00	\$ 25,000.00	\$ 50,000.00	
1.1	Administration - Staff Support to MPO Operation	F	\$ 10,000.00	\$ 20,000.00	\$ 30,000.00	Funds are awarded in grant PR-2021-042-00
		S				
		T	\$ 10,000.00	\$ 20,000.00	\$ 30,000.00	
1.2	Administration- TIP Development and Maintenance	F	\$ 10,000.00	\$ 20,000.00	\$ 30,000.00	Funds are awarded in grant PR-2021-042-00
		S				
		T	\$ 10,000.00	\$ 20,000.00	\$ 30,000.00	

1.3	Administration-Public Involvement Program	F	\$ 40,000.00	-	\$ 40,000.00	Funds are awarded in grant PR-2021-042-00
		S				
		T	\$ 40,000.00	-	\$ 40,000.00	
1.4	Administration-Professional Development	F	\$ 22,000.00	\$ 22,220.00	\$ 44,220.00	Funds are awarded in grant PR-2021-042-00
		S				
		T	\$ 22,000.00	\$ 22,220.00	\$ 44,220.00	
1.5	Administration-Title VI Civil Rights, Environmental Justice, EEO, and Disadvantage Business Enterprise Program	F	\$ 20,000.00	\$ 20,000.00	\$ 40,000.00	Funds are awarded in grant PR-2021-042-00
		S				
		T	\$ 20,000.00	\$ 20,000.00	\$ 40,000.00	
1.6	Administration-Interagency Agreements and Contract Legal Revision	F	\$ 10,000.00	\$ 10,000.00	\$ 20,000.00	Funds are awarded in grant PR-2021-042-00
		S				
		T	\$ 10,000.00	\$ 10,000.00	\$ 20,000.00	
28-06	Long Range Transportation Plan	F	\$ 1,500,000		\$ 1,500,000	Project will be funded with CARES ACT Section 5307 funds
		S				
		T	\$ 1,500,000		\$ 1,500,000	
	<b>Total Federal</b>		<b>*\$1,637,000.00</b>	<b>\$117,220.00</b>	<b>*\$1,754, 220.00</b>	
	<b>*Total State</b>		<b>0</b>	<b>0</b>	<b>0</b>	
	<b>Total</b>		<b>\$1,637,000.00</b>	<b>\$117,220.00</b>	<b>\$1,754, 220.00</b>	

\* Funds obligated with UPWP and Cares ACT funding

**Table 5 FTA Section 5303 and Local Match Funds**

Section 5303-FY2022	80% FTA	20% Local	100% Federal Match
	\$1,157,000	TDC	\$1,157,000
<b>AMENDMENT #1 Section 5303 FY2023</b>	<b>80% FTA</b>	<b>20% Local</b>	<b>100% Federal Match</b>
	<b>\$1,298,000</b>	<b>TDC</b>	<b>\$1,298,000</b>

**Table 6. Summary Table of Tasks and Funding in this UPWP Document: Section 5303**

Description		Two Years Program		Total Estimated Costs	Remarks
		2022	2023		
Comprehensive Transportation Plan for the Municipality of Loíza	F	\$81,000.00		\$81,000.00	Funds are awarded in grant PR-2021-042-00
	S	-			
	T	\$81,000.00		\$81,000.00	
Comprehensive Transportation Study for the Municipality of Quebradillas	F	\$81,000.00		\$81,000.00	Funds are awarded in grant PR-2021-042-00
	S	-			
	T	\$81,000.00		\$81,000.00	
Evaluation of the current transit system for the Municipality of San Sebastian	F	\$65,000.00		\$65,000.00	Funds are awarded in grant PR-2021-042-00
	S	-			
	T	\$65,000.00		\$65,000.00	
NTD "Publicos" Islandwide Data Collection.	F	\$820,000.00		\$820,000.00	Additional \$20,000 will be funded with Section 5304. Funds are awarded in grant PR-2021-042-00
	S	\$0.00		\$0.00	
	T	\$820,000.00		\$820,000.00	
NTD "Publicos" Safety and Security Data Collection.	F	\$130,000.00		\$130,000.00	Funds are awarded in grant PR-2021-042-00
	S	\$0.00		\$0.00	
	T	\$130,000.00		\$130,000.00	
<b>Comprehensive Transportation Study for the Municipality of Aguada</b>	F		<b>\$100,000.00</b>	<b>\$100,000.00</b>	<b>New projects for Amendment #1</b>
	S				
	T		<b>\$100,000.00</b>	<b>\$100,000.00</b>	
<b>Plan and Design of Complete Streets of Municipality of Camuy</b>	F		<b>\$100,000.00</b>	<b>\$100,000.00</b>	<b>New projects for Amendment #1</b>
	S				
	T		<b>\$100,000.00</b>	<b>\$100,000.00</b>	
<b>Comprehensive Transportation Study for the Municipality of Ciales</b>	F		<b>\$100,000.00</b>	<b>\$100,000.00</b>	<b>New projects for Amendment #1</b>
	S				
	T		<b>\$100,000.00</b>	<b>\$100,000.00</b>	

Comprehensive Transportation Study for the Municipality of Ceiba	F		\$81,000.00	\$81,000.00	New projects for Amendment #1
	S				
	T		\$81,000.00	\$81,000.00	
Comprehensive Transportation Study for the Municipality of Las Piedras	F		\$81,000.00	\$81,000.00	New projects for Amendment #1
	S				
	T		\$81,000.00	\$81,000.00	
Comprehensive Transportation Study for the Municipality of Maricao	F		\$70,000.00	\$70,000.00	New projects for Amendment #1
	S				
	T		\$70,000.00	\$70,000.00	
Comprehensive Transportation Study for the Municipality of Mayaguez	F		\$130,000.00	\$130,000.00	New projects for Amendment #1
	S				
	T		\$130,000.00	\$130,000.00	
Comprehensive Transportation Study for the Municipality of Peñuelas	F		\$81,000.00	\$81,000.00	New projects for Amendment #1
	S				
	T		\$81,000.00	\$81,000.00	
Development and Implementation of a Transit and Transportation Plan System for the Municipality of Sabana Grande	F		\$100,000.00	\$100,000.00	New projects for Amendment #1
	S				
	T		\$100,000.00	\$100,000.00	
Plan of Complete Streets for the Municipality of San Lorenzo	F		\$85,000.00	\$85,000.00	New projects for Amendment #1
	S				
	T		\$85,000.00	\$85,000.00	
Plan of Complete Streets for the Municipality of Trujillo Alto	F		\$85,000.00	\$85,000.00	New projects for Amendment #1
	S				
	T		\$85,000.00	\$85,000.00	
Feasibility study for a transportation connectivity system in the El Cinco Sector Zone in Rio Piedras, San Juan	F		\$100,000.00	\$100,000.00	New projects for Amendment #1
	S				
	T		\$100,000.00	\$100,000.00	
Comprehensive Transportation Study for the Municipality of Utuado	F		\$100,000.00	\$100,000.00	New projects for Amendment #1
	S				
	T		\$100,000.00	\$100,000.00	
Total Federal		\$1,177,000.00	\$1,213,000.00	\$2,390,000.00	The funds for FY2022 were obligated in grant PR-2021-042. The total federal for FY2023 are \$1,298,000.
Total State		\$0.00			
<b>TOTAL</b>		<b>\$1,177,000.00</b>	<b>\$1,213,000.00</b>	<b>\$2,390,000.00</b>	

## UPWP Development Process

The Federal Coordination Office (FCO) of the Puerto Rico Highway and Transportation Authority (PRHTA), as part of the operational staff of the PRMPO, is responsible for the preparation of the UPWP, which is based on petitions for funds submitted by transit agencies, Municipalities within each of the urbanized areas and from the DTPW and the PRHTA. These petitions for non-recurring planning activities are analyzed by the FCO and discussed with the PRMPO Technical Committee members. Petitions are evaluated and selected according to: the purpose or justification (what is expected to obtain from the requested planning activity), the consistency with the Puerto Rico Long Range Transportation Plan, the cost estimation, and the availability of the local match funds.

Before final approval by the PRMPO, the FCO published a public notice to inform that the draft of the UPWP is available for review and comment. A 15-day response period is provided to submit comments. The notice also states that copies of the UPWP draft are available for review at the various municipalities and at the PRHTA central office and webpage. In addition, a letter is sent to the PRMPO members informing of the date of the PRMPO meeting, including a copy of the draft of the Transportation Improvement Program (TIP) and UPWP for their review and comments at the meeting.

Once the draft of the UPWP document is presented for consideration and endorsement of the PRMPO Policy Board Committee for the SJUA, AUA, and the Urbanized Areas Under (UZA) 200,000 Population, the PRHTA send the document for to FHWA and FTA for their review and approval. The final UPWP incorporates the suggestions and revisions from FTA.

## UPWP Framework

*Overview of the Transportation Planning Process: Continuous, cooperative, and comprehensive*

The transportation planning is an essential part in the provision and implementation of the transportation system. Contrary to what some may think about planning, the transportation plan is not the transportation planning process. The transportation planning provides to the state, region or community with a vision for its future; it encompasses a comprehensive understanding of the pluralism necessities from different stakeholders as to engaged in a cooperative process to foster the involvement by all the users of the system; and is continuous, since it requires the monitoring and evaluation of the system's performance and condition.

The Federal regulation 23 USC 134-135 requires a statewide and metropolitan process. In general, the transportation planning process is described as a continuous, cooperative, and comprehensive process. Some of the steps involving the transportation planning process consist of:

- Monitoring existing conditions,
- Forecasting future population and employment growth, including assessing land uses in the region and identify major growth corridors,
- Identifying current and projected future transportation problems and needs, and analyzing, through detailed planning studies, various transportation improvement strategies to address those needs,
- Developing long-range plans and short-range programs of alternative capital improvement and operational strategies for moving people and goods,
- Estimating the impact of recommended future improvements to the transportation system on environmental features, including air quality
- Developing a financial plan for securing enough revenues to cover the costs of implanting strategies

Although there is no single agency or entity responsible for the entire transportation system, the transportation planning process is responsibility of the MPO.

## **The Metropolitan Planning Organization**

A Metropolitan Planning Organization (MPO) is a transportation policy-making body made-up of representatives from local government and transportation agencies with authority and responsibility in metropolitan planning areas. This organization is designated to carry out the metropolitan area's transportation planning process (FTA C 8100.1D).

This organization was required in an early 1970's Federal legislation. The legislation required the formation of an MPO for any urbanized area (UZA) with population greater than 50,000 and was created in other to ensure that existing and future transportation expenditure followed the (3-C) planning process: comprehensive, continuing, and cooperative. All Federal funding for transportation projects and programs is channeled through the MPO.

According to FTA regulations, the MPO is responsible for:

- Responsible for establishing a fair and impartial setting for all regional decision-making in the metropolitan area
- Identify and evaluate alternative transportation improvement options: use data and planning methods to generate and evaluate alternatives.

The planning studies and evaluations are included in the UPWP.

- Prepare and maintain a Metropolitan Transportation Plan
- Develop a Transportation Improvement Program (TIP)
- Involve the public

However, the MPO must coordinate with the state Department of Transportation (DOT), and produce the following documents:

- The Metropolitan Long-Range Transportation Plan (LRTP), means the official multimodal transportation plan addressing no less than 20 years planning horizon, but is updated a least every 4 or 5 years by the MPO through the transportation planning process.
- The Transportation Improvement Program (TIP) means a prioritized listing/ program of transportation projects covering a period of three or four years that is develop and formally adopted by an MPO as part of the metropolitan planning process, consistent with the LRTP, and required for projects to be eligible for funding.
- Unified Planning Work Program (UPWP) means a statement of work identifying the planning priorities and activities to be carried out within a metropolitan planning area.
- The state DOT must develop the Long-range Statewide Transportation Plan and the Statewide Transportation Improvement Program (STIP).
- The Long-range Statewide Transportation Plan is a policy-oriented document or may include a list of specific projects (it will be discussed on another section).
- The STIP is a statewide prioritized listing/ program of transportation projects covering a period of four years that is consistent with the Long-range Statewide Transportation Plan, metropolitan transportation plan and TIP's, and required for projects to be eligible for funding.

### **Planning Emphasis Areas**

The passage of the federal legislation Fixing America's Surface Transportation Act (FAST-act) continues the growing focus from MAP-21 to require MPOs that serve TMAs to:

- Have transit agency officials in their governing structures and
- MPOs are required to establish performance targets that address national performance measures issued by the U.S. DOT and are based on goals outlined in law-safety, infrastructure condition, congestion reduction, system reliability, economic vitality, environmental sustainability, reduced project delivery delays, transit safety, and transit asset management.

In that addition, FAST Act brought about a renewed focus on transportation planning, that resulted in the issued of three Planning Emphasize Areas that must be included in the UPWP and SPR work programs. These PEA's are:

- MAP-21 Implementation Performance Based Planning- as mention above, the MPOs and States has to establish and use a performance- based approach to transportation decision making, therefore a selection of the performance targets needs to be developed.
- Regional Cooperation- the purpose is to improve the coordination and cooperation through a multi- jurisdictional planning concept. MPOs are encouraging to create cross boundaries partnerships, share data and resources, create alliances, round table forums, promote regional alternatives solutions to transportation problems.
- Ladders of Opportunity- enhance opportunities for all Americans by investing in transportation projects as to better connect communities to employment, educational, health and commercial centers, as well as stimulate long-term job growth.

The development and implementations of the planning activities herein program includes the support of these PEA's.

### Planning Factors

In the development of this UPWP, the MPO considered the planning factors as updated in FAST-Act:

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, And efficiency;
2. Increase the safety of the transportation system for motorized and non-motorized users;
3. Increase the security of the transportation system for motorized and non-motorized users;
4. Increase the accessibility and mobility of people and for freight;
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
7. Promote efficient system management and operation; and
8. Emphasize the preservation of the existing transportation system.
9. Improve the resiliency and reliability of the transportation system.
10. Enhance travel and tourist



Task Title	Planning Factors									
	1	2	3	4	5	6	7	8	9	10
Comprehensive Transportation Plan for the Municipality of Loiza										
Comprehensive Transportation Study for the Municipality of Quebradillas										
Evaluation of the current transit system for the Municipality of San Sebastian										
NTD "Públicos" Safety and Security Data Collection										
NTD "Públicos" Data Collection for All Urbanized Areas and Islandwide										
2045 LRTP										
Program Administration and Planning Support Activities: UPWP Development & Grant Support, TIP Development & Maintenance, Public Involvement Program, Professional Development, Title VI and Legal Revision										
<b>Comprehensive Transportation Study for the Municipality of Aguada</b>										
<b>Plan and Design of Complete Streets of Municipality of Camuy</b>										
<b>Comprehensive Transportation Study for the Municipality of Ciales</b>										
<b>Comprehensive Transportation Study for the Municipality of Ceiba</b>										
<b>Comprehensive Transportation Study for the Municipality of Las Piedras</b>										
<b>Comprehensive Transportation Study for the Municipality of Maricao</b>										

Comprehensive Transportation Study for the Municipality of Mayaguez										
Comprehensive Transportation Study for the Municipality of Peñuelas										
Development and Implementation of a Transit and Transportation Plan System for the Municipality of Sabana Grande										
Plan of Complete Streets for the Municipality of San Lorenzo										
Plan of Complete Streets for the Municipality of Trujillo Alto										
Feasibility study for a transportation connectivity system in the El Cinco Sector Zone in Rio Piedras, San Juan										
Comprehensive Transportation Study for the Municipality of Utuado										

## PUERTO RICO MPO ORGANIZATION

In January 12, 1973, and as authorized by Plan Number 6 for the Reorganization of the Executive Branch of the Commonwealth of Puerto Rico, the Department of Public Works was reorganized and renamed the Department of Transportation and Public Works (DTPW), becoming the central government agency responsible for transportation programs for the Commonwealth of Puerto Rico. As part of this Reorganization Plan, the Highway Authority (later on Highway and Transportation Authority), the Ports Authority (PA) and the Metropolitan Bus Authority (MBA) were ascribed to the DTPW. In 1989, the PA became separate entity. In that same year, the Governor of the Puerto Rico designated the DTPW as the statewide agency responsible for carrying out the provisions of 23 USC 134 and with the requirements of Chapter 53, 49 USC 1602, 1603, and 1604. Therefore, the Secretary of the DTPW is the President of the Metropolitan Planning Organization (MPO) for all urbanized areas of Puerto Rico.

The DTPW is responsible for the planning, development, coordination, and administration of all transportation activities. The Agency formulates the general policy for surface, air, and water transportation for the Commonwealth of Puerto Rico and recommends programs, projects, and other measures which will meet the Island's needs regarding transportation services and facilities to be adopted by the Governor and/or the Legislative Assembly. Soundly formulated public policy promotes the development of an integrated, efficient, and safe transportation system that will expedite the development of the economy and improve the general welfare and safety of citizens. The DTWP/PRHTA continually evaluates and studies transportation problems.

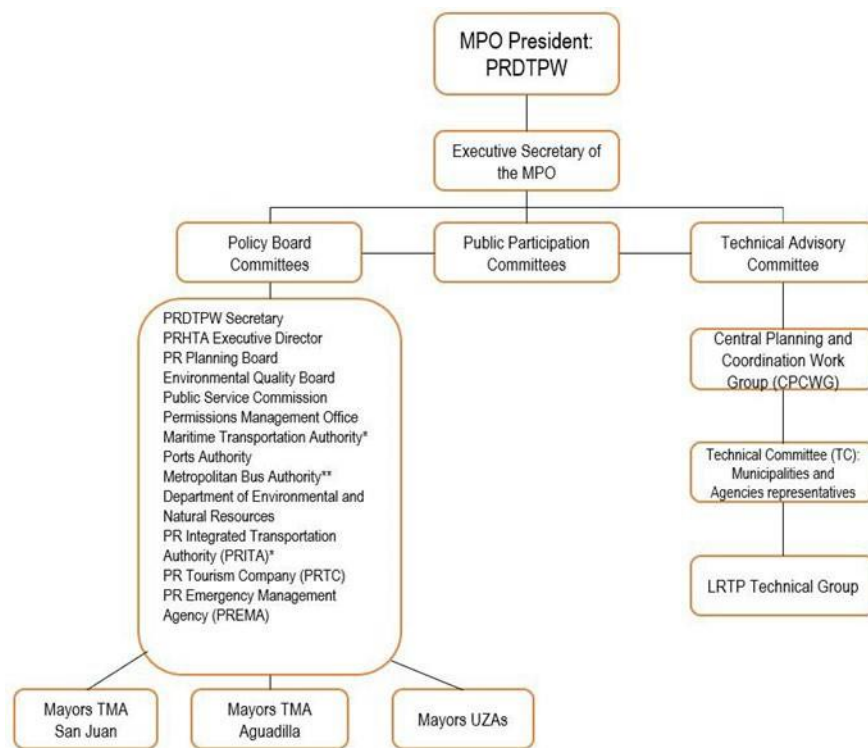
The authorities attached to the DTPW operate as public corporations, which provide them with fiscal autonomy and administrative flexibility. Their functions are formulated under policies adopted by the Secretary of DTPW.

On March 6, 1991, the Governor signed Law Number 1, which changed the name of the Highway Authority to the Puerto Rico Highway and Transportation Authority (PRHTA) and widened its responsibilities to include planning, promotion, and development of the transit system. Within the San Juan Urbanized Area (SJUA), the PRHTA is also empowered to contract the operation of public transportation services. Law Number 1 of 1991 also contemplated the development of a Statewide (Islandwide) Transportation Plan, which presents the public policies and strategies related to transportation and serves as a guide for public and private activities.

## Puerto Rico MPO composition

In Puerto Rico, there is one MPO, although according to the 2000 and 2010 Census of Population, there are two urbanized area with population over 200,000- also known as Transportation Management Area (TMA)- San Juan and Aguadilla urbanized areas, and nine consolidated urbanized areas with population of 50,000 to 199,999 (under 200,000 population). Although it is well known that the 2010 Census revealed that Puerto Rico suffer a decrease in population, this didn't have a substantial effect in the UZA's boundaries.

**Figure 1: Structure and composition of the MPO**



Meanwhile, Puerto Rico MPO's is organized in three Policy Board Committees (one committee for each Urbanized Area) and a Technical Committees in order to promote an urban transportation planning process that responds to the Commonwealth necessities as well as to the goals and objectives of local communities, and to assure a forum for cooperative decision-making in the planning process. The three Policy Board Committees are: the committee for the San Juan Urbanized Areas (SJUA), the committee for the Aguadilla Urbanized Areas (AUA), and the committee for the Urbanized Areas Under 200,000 Population

(UZA's).

The Policy Board Committee for the San Juan Urbanized Area (SJUA), is defined by the 2000 Census as falling in the funding category of areas with over one million inhabitants and comprising the following thirty- eight (38) municipalities:

1. Aguas Buenas	2. Aibonito	3. Barranquitas	4. Bayamón
5. Caguas	6. Canóvanas	7. Carolina	8. Cataño
9. Cayey	10. Ciales	11. Cidra	12. Coamo*
13. Comerío	14. Corozal	15. Dorado	16. Guaynabo
17. Gurabo	18. Humacao	19. Juncos	20. Las Piedras
21. Loíza	22. Manatí	23. Maunabo	24. Morovis
25. Naguabo	26. Naranjito	27. Orocovis	28. Patillas
29. Río Grande	30. Salinas	31. San Juan	32. San Lorenzo
33. Toa Alta	34. Toa Baja	35. Trujillo Alto	36. Vega Alta
37. Vega Baja	38. Yabucoa		

The Policy Board Committee for the Aguadilla Urbanized Area of (AUA), which falls in the funding category of areas with over 200,000 and less than one million inhabitants, is defined as comprising the following eleven (11) municipalities:

1. Aguada	2. Aguadilla	3. Añasco	4. Camuy
5. Isabela	6. Lares	7. Las Marías	8. Moca
9. San Sebastián	10. Rincón	11. Utuado	

The Policy Board Committee for Urbanized Areas Under 200,000 Population (UZA), which integrates twenty- nine (29) municipalities, is defined as follows:

<b>Urbanized Area (50,000-199,999)</b>	<b>Comprising municipalities</b>
➤ Arecibo	Arecibo**, Camuy, Hatillo, and Quebradillas
➤ Fajardo	Fajardo, Luquillo, Ceiba and Naguabo
➤ Florida- Imbéry- Barceloneta	Florida, Barceloneta, Arecibo**, Manatí
➤ Guayama	Arroyo, Guayama, Patillas, and Salinas
➤ Juana Díaz	Juana Díaz, and Villalba
➤ Mayagüez	Añasco, Hormigueros, and Mayagüez
➤ Ponce	Ponce

➤ San Germán	Cabo Rojo, Lajas, Sabana Grande, and San German
➤ Yauco	Guánica, Guayanilla, Peñuelas, and Yauco

\*\*Arecibo is indeed in two Urbanized Areas: in Arecibo Urbanized Area and in Florida-Imbéry-Barceloneta Urbanized Area.

The Policy Board Committees are the cooperative decision-making among local officials (Mayors), state agencies related to transportation, and representatives of various Federal agencies and the public. Members include the following voting and non-voting representatives:

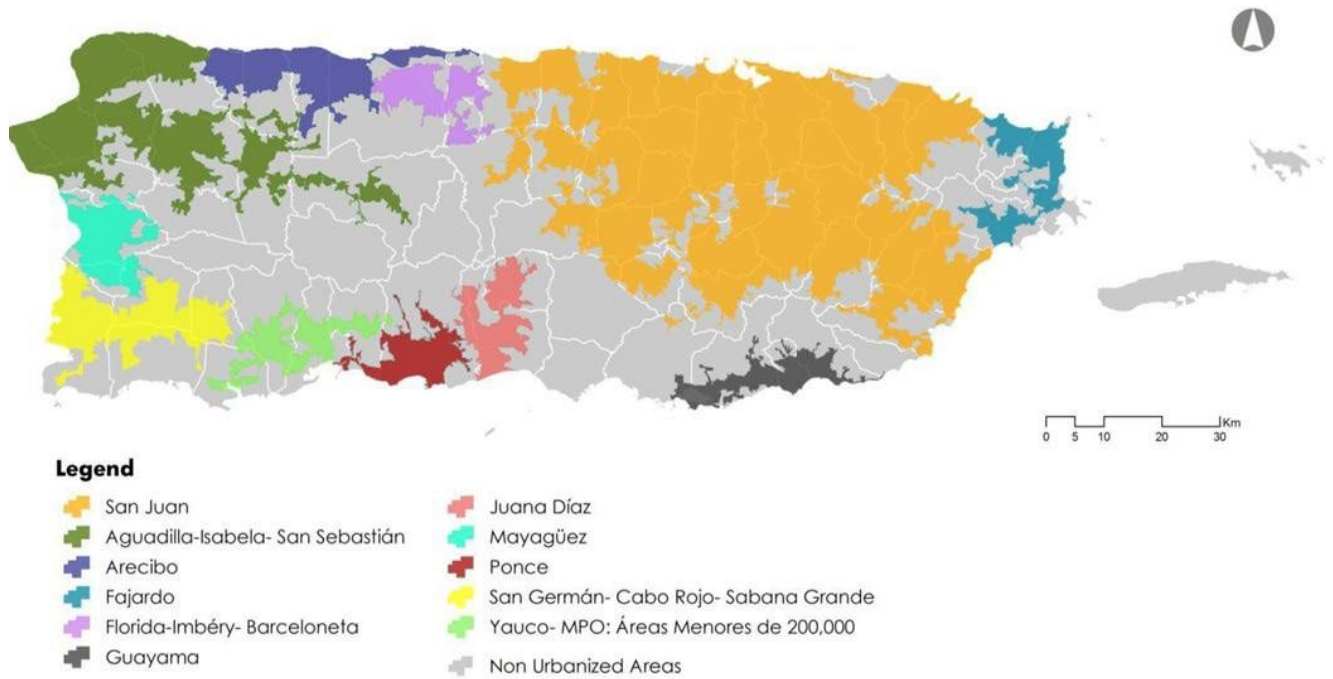
#### Voting

1. Secretary of Department of Transportation and Public Works
2. Executive Director of the Puerto Rico Highway and Transportation Authority (PRHTA)
3. Executive Director of Ports Authority (PA)
4. President and General Manager of the Metropolitan Bus Authority (MBA)
5. President, Planning Board (PB)
6. President, Public Service Commission (PSC)
7. President, Environmental Quality Board (EQB)
8. Maritime Transportation Authority (MTA)
9. Executive Director, Puerto Rico Integrated Transportation Authority
10. PR Tourism Company
11. PR Emergency Management Agency
12. The 72 mayors of the municipalities included in the urbanized areas (SJUA – 38; AUA – 11; UZA – 23)

#### Non-Voting

1. Puerto Rico Division Administrator, Region I, FHWA
2. Regional Administrator, Region IV, FTA

Figure 2: Urbanized Areas defined by the 2010 Census



SEPTEMBER, 2013

## Work Element 1: Program Administration and Planning Support Activities

Preparation of UPWP, Grant Management, MPO operation and public involvement activities, interagency coordination



Petitioner: PRHTA  
Task: 2000

*Title: UPWP Development & Grant Administration of the Metropolitan Transportation Planning Program and Statewide Transportation Planning Program*

PURPOSE:

- To conduct the transportation planning process for the PRMPO and its member jurisdictions and partners in a manner that complies with federal and state requirements.
- Prepare, manage and monitor the development of the UPWP tasks

PREVIOUS WORK:

- Puerto Rico UPWP 2020-2021, as amended.
- Grant execution: PR-2019-018-00 and PR-2020-004-00.
- Preparation of Interagency Agreements
- The administration of the overall planning process, which includes all correspondence, meetings, status updates on all state and federal reports e.g. LRTP, STIP, TMA Certifications, among others is being completed on a daily basis with all participant offices,
- Purchase Orders, Employee Time Distribution Sheets are other example documents that were worked on.

METHODOLOGY/ SCOPE OF WORK:

- Ensure projects are properly funded and begin and end dates are within grant agreement timeframe.
- Review and update the UPWP to address any changes.
- Document distribution to all the PRMPO members.
- Seek approval from the members of the three PRMPO Policy Board Committees.
- Administer the work to be performed: overlook of the task to be done, provide technical assistance to the subrecipients (municipalities and agencies) of Metropolitan Planning Program (MPP) funds. This also includes an evaluation of the Municipalities and Agencies petitions for MPP funds, scope of work assessment, listing the recommended and not recommended MPP petitions for planning activities, incorporating the new tasks in the UPWP.
- Prepare the budget and distribution of the MPP funds for the 2018 Assignments and the identification of available MPP funds from other older Grants.
- Develop and process the third-party agreements between the PRHTA and the subrecipients of MPP.

- Prepare work scope(s) and budgets for planning grants and process grant application.
- Process grants amendments and budget revision.
- Grant Close Out preparation. Project Completion Report to close out grants, as appropriate.
- Request progress report to the subrecipients of MPP funds. Submit the quarterly progress report of the MPP open grants.
- Process reimbursement request from MPP subrecipients. Manage a check list to verify the reimbursement request comply with the necessary documentation to process it to the Accounting Office of PRHTA.
- Reproduce the UPWP and publish the availability of the document for the people to comment.
- Maintain financial records, invoices, quarterly progress reports and annual audits
- Complete the PRMPO certification process pursuant to federal and state regulations
- Review existing agreements and modify/update as needed
- Monitor and maintain a two-year Unified Planning Work Program for FY 22-FY23, including any necessary revisions, and provide at least quarterly progress reports and reimbursement requests
- Coordinate UPWP tasks with participating agencies or municipalities.
- Prepare the draft FY2022- FY2023 UPWP in 2021.

PRODUCTS & SCHEDULE:

- Quarterly Progress Reports
- Minutes and reports required for the transportation planning process - ongoing
- Single Audit Report Request – annually
- Certification and Assurances - annually
- Interagency Agreements- as needed
- Agreement - as needed
- Update standard MPO agreements - as needed
- UPWP monitoring, maintenance/revisions, and expenditure Reports/Reimbursements - quarterly/as needed
- UPWP revisions and updates- as needed

COORDINATED BY:

Federal Coordination Office and Fiscal Section, Accounting Office

Sub-task 1.1  
Petitioner: PRHTA

*Title: Staff Support to the PRMPO Operation*

PURPOSE:

- Administrate and reinforce the planning responsibilities of the PRMPO
- TMA certification review implementation and monitoring of corrective actions
- Develop strategies to improve PRMPO operations, project management, performance measures definition and implementation

METHODOLOGY/ SCOPE OF WORK:

- Designation of the Technical Advisory Committee.
- Organized the meetings with the Policy Board Committee and the Technical Committee for each Urbanized Area: San Juan , Aguadilla and UZA Under 200,000 Population.
- Prepare agenda packages and minutes in support of PRMPO board and committee meetings.
- The PRMPO staff prepares agendas, updates the informational material, prepare the PowerPoint presentation, process the letter of invitation to the MPO members and publish the public notice to announcing the dates of the meetings.
- Evaluate the necessity of developing a strategic plan for the PRMPO.
- Prepare, certify and process PRMPO Resolutions.
- Prepare summary minutes and distribute the recording of the PRMPO Policy Board Committees meetings.
- Update the PRMPO membership contact information.
- Provide technical assistance to the municipalities and agencies on FTA and FHWA programs.
- Maintain the PRMPO members informed on issues related to transportation, funding, grant management and programmed projects.
- Coordinate activities with participating transportation partners.

END PRODUCTS:

- Power point presentations, brochures, copies of the STIP, TIP and UPWP
- PRMPO agendas
- Recordings of the PRMPO Policy Board Committees meetings
- PRMPO members directory

- MPO Administrative and Operational Regulation

WORK SCHEDULE:

- These are annual recurring activities.

COORDINATED BY:

- Federal Coordination Office

Sub-task 1.2

Petitioner: PRHTA

*Title: TIP Development and Maintenance*

Create, maintain, review and update a program of transportation system capital projects and operations support for a 4-Year period for each Urbanized Area (San Juan, Aguadilla and Under 200,000) consistent with the long-range planning activities and in compliance with all federal and state statutory requirements.

PREVIOUS WORK:

- TIP 2019-2022, Amendment 2 for San Juan Urbanized Area, approved on July 1, 2021
- TIP 2019-2022, Amendment 2for Aguadilla Urbanized Area, approved on July1, 2021
- TIP 2019-2022 for Urbanized Areas Under 200,000 Habitants, approved on July 1, 2021.

METHODOLOGY/ SCOPE OF WORK:

- The PRHTA staff in collaboration with each urbanized area Technical Committee will reviewed and submit to the three Policy Board Committees of each Urbanized Area (San Juan, Aguadilla, and the UZA's) the list of projects and transportation expending that will be included in the TIP.
- Describe and prioritize the surface transportation programs and projects that receive federal funds, for every transportation mode, to be implemented during the program period.
- Review scope of projects, priorities and schedule. This work is usually carried out between the months of October - January.
- Maintain ongoing activities to monitor and report on progress and status of programmed projects.
- Prepare document for PRMPO Committees, and Board review and approval.
- Seek endorsement of TIP document by all PRMPO Committees, including the PRMPO Policy Board Committees.
- Refine the Prioritization Process to consider the results of the LRTP, and performance measures developed.
- Coordinate the public participation meetings for compliance with FAST-

ACT, in developing the TIP and STIP.

- Publish the interactive TIP on the PRMPO website for use by the public and other agencies
- Prepare an annual list of projects for which Federal funds (FTA) were obligated for inclusion in the TIP
- Solicit and evaluate applications for the Transportation Alternatives Program and any competitive funding made available from Surface Transportation Program (SU) Funds

END PRODUCTS:

- TIP 2022-2026 for San Juan Urbanized Area
- TIP 2022-2026 for Aguadilla Urbanized Area
- TIP 2022-2026 for Urbanized Areas Under 200,000

WORK SCHEDULE:

- Start Date: the tasks usually begin in August (call for projects) and continues with the approval of the TIPs
- TIP amendments as needed
- Annual Listing of Projects for Federal funds obligated in the preceding year.

COORDINATED BY:

- Federal Coordination Office

Sub-task 1.3

Petitioner: PRHTA

*Title: Public Involvement Program*

PURPOSE:

- Ensure citizen and community input (gather ideas, voice their concerns and needs) in all aspects of the multimodal transportation planning and decision-making process before plans and programs are approved
- Develop a proactive and ongoing public participation process that includes the public, stakeholders, and other governmental bodies at the island, regional, and local levels.
- Publicize the project to increase public awareness about transportation issues and publicize the role of DTPW/PRHTA in the plan development.
- Create communications channels with the public and others to encourage public participation and input.

#### PREVIOUS WORK:

- PRMPO public participations meetings to inform on FTA and FHWA funds availability and the federal and local transportation dispositions.
- Coordinate with the PRHTA Civil Right Office the revision of the PRMPO documents and collect data
- Meetings with public transit users and elderly and handicapped organizations
- Regional meetings between DTPW officials, municipal technical staff and elected officials
- Introduction meeting of the PRMPO and transportation planning process to new elected officials
- Create an email address to receive public comments.
- Creating a contact base with email address list, and including the municipalities, committee members, service, trade, and other organizations, including professional groups such as the area's American Planning Association, Institute of Transportation Engineers, and American Institute of Architects.

#### METHODOLOGY/ SCOPE OF WORK:

- Evaluation of measures of the PIP effectiveness
- Update the Public Involvement Plan (PIP) and the PRMPO Rules.
- Coordinate regional meetings with municipalities to establish a dialogue about their transit systems and explore opportunities to develop a regional transit system.
- Posting a flyer announcing the PRMPO meetings on the PRHTA website.
- Maintaining and conducting meetings with the Citizen Advisory and Economic Development Committees. The membership in these groups was identified jointly by the PRMPO and PRHTA to provide a broad cross-section of representation of transportation stakeholder interests across user groups, freight interests, affected and benefited partners, modal interests, transportation disadvantaged groups, and others. These candidates were appointed by the Executive Secretary of the Puerto Rico MPO. Their work began after the model development in early 2012 and continues through the project completion.
- Making presentations to the PRMPO Policy Board Committees. The MPO staff prepares agendas, updates the informational material, prepare the power point presentation, process the letter of invitation to the PRMPO members and publish the public notice to announcing the dates of the meetings.
- Posting the approved UPWP, TIP's and STIP on the PRHTA website (under Federal Coordination Office).
- Developing bilingual press releases, public service announcements, and notices for distribution through the PRHTA Communications and Press Office to media outlets.
- Informed the public about the availability of the planning documents drafts

(LRTP, UPWP, TIP, and STIP) for their revision and to provide the opportunity to comment.

END PRODUCTS:

- Updated Public Involvement Plan (PIP) and revision of the PRMPO Rules
- Creation of Public Advisory Committee and Designation of the Technical Advisory Committee
- PRMPO Collaboration Agreement to state and determine the MPO, State, public transportation operator's roles and responsibilities.
- Website redesign, maintenance and updates - ongoing
- Facebook page maintenance and updates – ongoing

COORDINATED BY:

PRHTA: Federal Coordination Office, Strategic Planning Office & Special Studies and Programming Office

Sub-task 1.4

Petitioner: PRHTA

*Title: Professional Development*

PURPOSE:

- Transportation planning funds will be used for staff members of the PRMPO to attend transportation planning and professional development conferences, workshops, and training.

PREVIOUS WORK:

- Triennial Review Workshops
- FTA/ FHWA webinars

METHODOLOGY/ SCOPE OF WORK:

- The PRMPO will organize training sessions for the Transportation Policy Board and subcommittee members and to local governments and participating agencies.
- A list of themes or areas of knowledge are going to be develop, in order to prepare a training program
- Request NTI seminars
- Provide training for PRMPO staff and PRMPO Board members

## END PRODUCTS AND SCHEDULE

- Training program with the necessities and work plan
- Seminars- annually

## COORDINATED BY:

PRHTA: Federal Coordination Office, Strategic Planning Office & Special Studies and Programming Office

## Sub-task 1.5

Petitioner: PRHTA

## *Title VI Civil Rights, Environmental Justice, EEO, and Disadvantage Business Enterprise Program*

### PURPOSE:

- Maintain an analytical approach that produces procedures that meet Title VI and Environmental Justice requirements by ensuring that federally-funded transportation projects adequately consider effects on low-income and minority segments of the population.
- Set policies for Disparate Impact and Disproportionate Burden as now required by Title VI.
- Update Title VI related documents, policies and procedures, as required.

### PREVIOUS WORK:

- DBE goal methodology
- Title IV assurances, nondiscrimination policy and complaint filing procedure
- Limited English Proficiency Plan Update.

### METHODOLOGY/ SCOPE OF WORK:

- Attend PRMPO meetings,
- Review the PRMPO documents as to address the Civil Rights requirements
- Collect statistical data on those, disadvantage communities, impacted by the program, services and activities
- Coordinate with the Puerto Rico 2050 Long Range Transportation Plan Team in order assess the demographic and socioeconomic information
- Execution on DBE goal methodology: revision of the federal clauses and Request for Proposal procurement
- Certify companies as DBE and update the DBE directory

## END PRODUCTS

- ADA Transition Plan 2019



COORDINATED BY:

- PRHTA: Civil Rights Office

Sub-task 1.6

Petitioner: PRHTA

*Title: Interagency Agreements and Contract Legal Revision*

PURPOSE:

Prepare and/or review all contracts, interagency agreements, reports, and federal transportation related documentation

PREVIOUS WORK:

Review interagency agreements between PRHTA and PRMPO members

METHODOLOGY/ SCOPE OF WORK:

- Attend PRMPO meetings,
- Federal clauses revisions
- Master Agreement incorporation
- Development of the PRHTA Annual Certification and Assurances
- Procurement Assessment
- Third Party Contract Development

END PRODUCTS AND SCHEDULE

- Interagency agreement- as needed

Coordinated Office

- PRHTA: Federal Coordination Office and Legal Advisor Office

## Work Element 2: Puerto Rico 2050 Long Range Transportation Plan (LRTP)

## TASK 2-1

### Puerto Rico 2050 Long Range Transportation Plan Execution and Maintenance

#### PURPOSE:

- The Federal Regulations (CFR 23 Part 450) requires updating the Metropolitan Transportation Plan or Regional Long Range Transportation Plan, every five years, in air attainment areas, and since the Puerto Rico 2045 Multimodal and Sustainable Long- Range Transportation Plan and the other seven Regional LRTP were approved on 2018.
- This task will provide maintenance and execution of the approved plan.

#### PREVIOUS WORK:

- 2045 Islandwide Long Range Transportation Plan
- 2045 San Juan Metropolitan LRTP
- 2045 Aguadilla Metropolitan LRTP
- 2045 Regional LRTPs: for the North, Southwest, South, Southeast and East

#### METHODOLOGY/ SCOPE OF WORK:

- Evaluation of the progress and status of programmed project.
- Revision of the financial financing mechanisms and possible new options to generate revenues for need
- capital investments and transportation operations, as per applicable federal regulation.
- Maintain ongoing activities to monitor and report on progress and status of programmed projects.
- Prepare document for PRMPO Committees, and Board review and approval.
- Seek endorsement of TIP document by all PRMPO Committees, including the MPO Policy Board Committees.
- Coordinate with FHWA, FTA, PRHTA and other stakeholders in the development and implementation of
- performance-based planning and programming to comply with FAST-ACT.
- Evaluate access to essential services to identify transportation connectivity gaps, including traditionally underserved populations.
- Monitor the adopted LRTP for changes due to socio-economic changes and requests for modifications from the municipalities.
- Review the data and plan annually to determine if amendments are needed.
- Coordinate the LRTP with the PRHTA traffic performance standards (TPS) system to monitor impacts from proposed development.

- Retain a consultant to assist in modeling and evaluating the LRTP and any amendments against FAST Act performance measures.
- Update data and information needed to validate the travel demand model.
- Identify possible new projects and revised the projects of the illustrative list that could advance policy goals, including preparing adequate cost estimates as per new federal regulations.
- Utilization of travel models and others planning tools to evaluate potential projects and programs.
- Air quality conformity determination assessment.

END PRODUCTS & WORK SCHEDULE:

Monitoring, maintaining and supporting the adopted LRTP -ongoing

COORDINATED BY:

PRHTA= Strategic Planning Office

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Long Range Transportation Plan	F	\$1,500,000.00		\$ 1,500,000.00	Task will be funded with CARES ACT Section 5307
	S	\$ -	-	\$ -	
	T	\$1,500,000.00		\$ 1,500,000.00	

Work Element 3: Special Project Planning  
New Transportation Planning Tasks for: San  
Juan, Aguadilla, and Urbanized Areas Under  
200,000

San Juan Urbanized Area  
Task 3-1

Municipality of Loíza

## Comprehensive Transportation Plan for the Municipality of Loíza

### PURPOSE OF THE ACTIVITY:

The Municipality of Loíza is requesting funds to complete a comprehensive study of the public transportation system that attends the mobility needs of the population of Loíza at a local and regional level. This study will help the Municipality to improve the mobility needs; identifying patterns, common destinations, and typical travel times for residents. The creation of a transportation system in our town will benefit a population with 52% of people of low or low moderate income.

### PREVIOUS WORK:

Memorial del Plan de Usos de Terrenos Municipal de Loíza (2016)

### METHODOLOGY/SCOPE OF WORK

- Define vision, goals, objective and performance for the transit system
- Develop a document that identifies transportation strategies and projects for the Municipality of Loíza based on input received from the community and field studies.
- Demographic study of the resident population: Identify travel patterns, Evaluate existing conditions
- Detailed transportation evaluation that meets the specific needs of the Municipality of Loíza by making operational improvements, increasing network connectivity and preserving the current investment in transportation infrastructure.
- Identify transportation system improvements that will support a sustainable multimodal travel network.
- Include community consensus on future transportation needs required to support anticipated growth and development
- Supporting community vision and goals by integrating land use and transportation.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.

### END PRODUCTS

- Comprehensive Transportation Plan
- Capital plan and Financial plan

SCHEDULE:

Start Date: October 2021; End Date: October 2022

COORDINATED BY:

Paul P. Fuentes Rivera, Federal Programs Official, Municipality of Loíza

COST AND FUNDING SOURCE:

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Plan for the Municipality of Loiza	F	\$81,000.00		\$81,000.00	
	S	-			
	T	\$81,000.00		\$81,000.00	

## Urbanized Areas Under 200,000 Population

### Municipality of Quebradillas

## Comprehensive Transportation Plan for the Municipality of Quebradillas

### PURPOSE OF THE ACTIVITY:

The study will serve as a tool for the development of the transportation system. The goal is to boost the access and mobility of citizens and visitors in urban and tourist areas in Quebradillas. This will result in significant improvement of quality of life and economic development for our municipality and its residents and visitors. Study will allow the improvement of the transit system to enhance the accessibility to the citizens, especially seniors, individuals with disabilities to the commercial areas, urban areas, services areas and government offices within the municipality.

### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.



**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2021; End Date: October 2022

**COORDINATED BY:**

Ing. Edgar Sein, Secretario Operacional y Desarrollo de Proyectos, Municipality of Quebradillas

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Study for the Municipality of Quebradillas	F	\$81,000.00		\$81,000.00	
	S	-			
	T	\$81,000.00		\$81,000.00	

Aguadilla Urbanized Area

Municipality of San Sebastian

## Evaluation of the current transit system for the Municipality of San Sebastian

### PURPOSE OF THE ACTIVITY:

The Municipality of San Sebastian – a study should be carried out that allows us to check if existing stops require location changes given factors such as the mobility needs of the population, changes in the location of agencies governments that respond to the pressing needs of citizens, risk factors on the roads to the trolley make their stops for collection of passengers, feasibility of building sheds at stops, recommendations of construction of sheds and many other factors.

### PREVIOUS WORK:

Plan de Ordenamiento Territorial (1998)

### METHODOLOGY/SCOPE OF WORK

- The evaluation will provide recommendations for mass transportation need and government planning, tendencies in the municipality's urban growth and will study the need for improvement to the existing transportation system.
- The evaluation will evaluate the tendencies in the municipality urban traffic growth, particularly the entrance and exit point. A diagnostic of road condition, sidewalks and signage will be considered, too.
- Interview Key Users: The identified key users will be interview from the following areas: commuters, government officials, urban center businesses owners, "públicos" drivers, and tourist, others as necessary.
- The assessment will evaluate the current and future operation transportation system. Also, current vehicular traffic in the urban area, routes, public transportation and infrastructure.
- The assessment will target persons with disabilities who are unable to access Fixed Route services, evaluation of area with handicap commuter where services don't get there. It must also include the criteria that could be used to serve the mentioned population and provides recommendations on how to integrate the service to this population.
- Operational Cost: The assessment will consider different source of funding. At the moment, the primary source will be FTA funding. It will also, considerate possible service fares. It will also assess the route efficiency, required vehicle per routes to maximize the efficiency of the system,

- Recommendation: Those recommendations must include guidance to maximize the operations, new environmental technology to integrate in the system, integration of private services, and routes hours. Most of the recommendations should be implemented.

END PRODUCTS:

SCHEDULE:

Start Date: October 2021; End Date: October 2022

COORDINATED BY:

Maritza Ruiz Esteves, Directora, Fondos Federales, Municipality of San Sebastian

COST AND FUNDING SOURCE:

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Evaluation of the current transit system for the Municipality of San Sebastian	F	\$65,000.00		\$65,000.00	
	S	-			
	T	\$65,000.00		\$65,000.00	

## **(Amendment #1) Aguadilla Urbanized Area**

Municipality of Aguada

### Comprehensive Transportation Plan for the Municipality of Aguada

#### PURPOSE OF THE ACTIVITY:

The study will serve as a tool for the development of the transportation system. The goal is to boost the access and mobility of citizens and visitors in urban and tourist areas in Aguada. This will result in significant improvement of quality of life and economic development for our municipality and its residents and visitors. Study will allow the improvement of the transit system to enhance the accessibility to the citizens, especially seniors, individuals with disabilities to the commercial areas, urban areas, services areas and government offices within the municipality.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Zulma Rivera Figueroa, Municipality of Aguada

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Study for the Municipality of Aguada	F	-	\$100,000.00	\$100,000.00	
	S	-	-		
	T	-	\$100,000.00	\$100,000.00	

**(Amendment #1)** Urbanized Area under 200,000 habitants

Municipality of Camuy

## Plan of Complete Streets for the Municipality of Camuy

**PURPOSE OF THE ACTIVITY:** The Municipality of Camuy is interested in developing a Complete Streets Plan to improve the mobility of its communities since it is a matter of vital importance because it impacts the quality of life of citizens. This project is complementary to the public transportation service will result in a better use of spaces and facilities, safety and user mobility on public roads. This project also support economic development through the implementation to accessible and profitable initiatives, improves physical and mental health through physical activities and reduces accidents and their severity when they occur. Among the aspects to comply with the concepts of complete streets is: well configured sidewalks, safe crosses, light and fluid traffic, parking, exclusive lane for cyclists, public transportation and construction of signs and structures.

**PREVIOUS WORK:**

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

**METHODOLOGY/SCOPE OF WORK**

- Recommendations of areas for implementation the complete street plan
- Sources of founding and estimation of cost per areas
- Existing conditions
- Recommendation design elements
- Incorporation green infrastructure features
- Community outreach
- Alternatives
- Phased Implementation plan

END PRODUCTS

- Development of a Plan of Complete Streets along the territorial limits of the Municipality

SCHEDULE:

Start Date: October 2022; End Date: October 2023

COORDINATED BY:

Awilda Martinez, Municipality of Camuy

COST AND FUNDING SOURCE:

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Plan and Design of Complete Streets of Municipality of Camuy	F	-	\$100,000.00	\$100,000.00	
	S	-			
	T	-	\$100,000.00	\$100,000.00	

## **(Amendment #1) San Juan Urbanized Area**

Municipality of Ciales

### Comprehensive Transportation Plan for the Municipality of Ciales

#### PURPOSE OF THE ACTIVITY:

The study will serve as a tool for the development of the transportation system. The goal is to boost the access and mobility of citizens and visitors in urban and tourist areas in Ciales. This will result in significant improvement of quality of life and economic development for our municipality and its residents and visitors. Study will allow the improvement of the transit system to enhance the accessibility to the citizens, especially seniors, individuals with disabilities to the commercial areas, urban areas, services areas and government offices within the municipality.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.



**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Suheily Gonzalez, Municipality of Ciales

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Study for the Municipality of Ciales	F	-	\$100,000.00	\$100,000.00	
	S	-	-		
	T	-	\$100,000.00	\$100,000.00	

## **(Amendment #1)** Urbanized Area under 200,000 habitants

Municipality of Ceiba

### Comprehensive Transportation Plan for the Municipality of Ceiba

#### PURPOSE OF THE ACTIVITY:

The study will serve as a tool for the development of the transportation system. The goal is to boost the access and mobility of citizens and visitors in urban and tourist areas in Ceiba. This will result in significant improvement of quality of life and economic development for our municipality and its residents and visitors. Study will allow the improvement of the transit system to enhance the accessibility to the citizens, especially seniors, individuals with disabilities to the commercial areas, urban areas, services areas and government offices within the municipality.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

END PRODUCTS

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

SCHEDULE:

Start Date: October 2022; End Date: October 2023

COORDINATED BY:

William Serrano, Municipality of Ceiba

COST AND FUNDING SOURCE:

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Study for the Municipality of Ceiba	F	-	\$81,000.00	\$81,000.00	
	S	-	-		
	T	-	\$81,000.00	\$81,000.00	

## **(Amendment #1) San Juan Urbanized Area**

Municipality of Las Piedras

### Comprehensive Transportation Plan for the Municipality of Las Piedras

#### PURPOSE OF THE ACTIVITY:

The study will serve as a tool for the development of the transportation system. The goal is to boost the access and mobility of citizens and visitors in urban and tourist areas in Las Piedras. This will result in significant improvement of quality of life and economic development for our municipality and its residents and visitors. Study will allow the improvement of the transit system to enhance the accessibility to the citizens, especially seniors, individuals with disabilities to the commercial areas, urban areas, services areas and government offices within the municipality.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Charlie Hernandez, Municipality of Las Piedras

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Study for the Municipality of Las Piedras	F	-	\$81,000.00	\$81,000.00	
	S	-	-		
	T	-	\$81,000.00	\$81,000.00	

## **(Amendment #1) Non-Urbanized Area (Rural)**

Municipality of Maricao

### Comprehensive Transportation Plan for the Municipality of Maricao

#### PURPOSE OF THE ACTIVITY:

The study will serve as a tool for the development of the transportation system. The goal is to boost the access and mobility of citizens and visitors in urban and tourist areas in Maricao. This will result in significant improvement of quality of life and economic development for our municipality and its residents and visitors. Study will allow the improvement of the transit system to enhance the accessibility to the citizens, especially seniors, individuals with disabilities to the commercial areas, urban areas, services areas and government offices within the municipality.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Jose L. Cintron Gonzalez, Municipality of Maricao

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Study for the Municipality of Maricao	F	-	\$70,000.00	\$70,000.00	
	S	-	-		
	T	-	\$70,000.00	\$70,000.00	

**(Amendment #1)** Urbanized Area under 200,000 habitants

Municipality of Mayagüez

**Comprehensive Transportation Study of the transit service and transit infrastructure in the Municipality of Mayagüez.**

**PURPOSE OF THE ACTIVITY:**

The Integrated Transportation System of Mayaguez (TIM) was established in 2010 after the success of the citizen mobility during the Caribbean and Central America Games in Mayaguez. Its implementation began to grow when in 2015, the Routes PR-102, PR-105, PR-106, PR-103 and PR-348 were integrated. These routes amplified the coverage of the system significantly with an increase of over 45% of service in the territorial limits of the municipality.

The proposed study is consistent with the goals of the municipality and with the vision of the Regional Long Range Transportation Plan, which promotes meeting the mobility needs of all social sectors, easy access to all destinations and creating opportunities for economic development and investments and promoting the reduction of traffic and pollution.

**PREVIOUS WORK:**

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

**METHODOLOGY/SCOPE OF WORK**

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.



- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Yarelis Irizarry, Municipality of Mayagüez

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Study for the Municipality of Mayagüez	F	-	\$130,000.00	\$130,000.00	
	S	-	-		
	T	-	\$130,000.00	\$130,000.00	

## **(Amendment #1)** Urbanized Area under 200,000 habitants

Municipality of Peñuelas

### Comprehensive Transportation Plan for the Municipality of Peñuelas

#### PURPOSE OF THE ACTIVITY:

The study will serve as a tool for the development of the transportation system. The goal is to boost the access and mobility of citizens and visitors in urban and tourist areas in Peñuelas. This will result in significant improvement of quality of life and economic development for our municipality and its residents and visitors. Study will allow the improvement of the transit system to enhance the accessibility to the citizens, especially seniors, individuals with disabilities to the commercial areas, urban areas, services areas and government offices within the municipality.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Yancy M. Caquias Lugo, Municipality of Peñuelas

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Study for the Municipality of Peñuelas	F	-	\$81,000.00	\$81,000.00	
	S	-	-		
	T	-	\$81,000.00	\$81,000.00	

## **(Amendment #1)** Urbanized Area under 200,000 habitants

Municipality of Sabana Grande

### Development and Implementation of a Transit and Transportation Plan System for the Municipality of Sabana Grande

#### PURPOSE OF THE ACTIVITY:

The Municipality of Sabana Grande is one of the few municipalities that still have various transit routes operated by private transportation operators (porteadores). The majority of the private operators drive vans and small taxi cabs. However, the municipality recognized that the actual transit service provided by the private operators is neglected, possibly because the decline of users as well as a drop in the number of transit operators, leaving rural areas unattended. The municipal government has also identified other necessities: improve the security of the transportation facilities, enhance the conditions of sidewalks and streets as to comply with ADA and incorporate the use ITS to the transit system.

The purpose of this study is to develop a document that will serve as a roadmap to guide in the implementation of an efficient comprehensive transit system. The Municipality of Sabana Grande lacks a public transit service. Still the municipality needs to identify the priorities and to create an implementation plan based on the referred transportation plan and the actual municipal needs.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and

preferred transit alternative.

- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Arleene E. Marcial Estrada, Municipality of Sabana Grande

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Development and Implementation of a Transit and Transportation Plan System for the Municipality of Sabana Grande	F	-	\$100,000.00	\$100,000.00	
	S	-	-		
	T	-	\$100,000.00	\$100,000.00	

## **(Amendment #1) San Juan Urbanized Area**

Municipality of San Lorenzo

### Plan of Complete Streets for the Municipality of San Lorenzo

#### PURPOSE OF THE ACTIVITY:

The Municipality of San Lorenzo is interested in developing a Complete Streets Plan to improve the mobility of its communities since it is a matter of vital importance because it impacts the quality of life of citizens. This project is complementary to the public transportation service will result in a better use of spaces and facilities, safety and user mobility on public roads. This project also support economic development through the implementation to accessible and profitable initiatives, improves physical and mental health through physical activities and reduces accidents and their severity when they occur. Among the aspects to comply with the concepts of complete streets is: well configured sidewalks, safe crosses, light and fluid traffic, parking, exclusive lane for cyclists, public transportation and construction of signs and structures.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Samary Ruiz Mercado, Municipality of San Lorenzo

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Plan of Complete Streets for the Municipality of San Lorenzo	F	-	\$85,000.00	\$85,000.00	
	S	-	-		
	T	-	\$85,000.00	\$85,000.00	

## **(Amendment #1) San Juan Urbanized Area**

Municipality of Trujillo Alto

### Plan of Complete Streets for the Municipality of Trujillo Alto

#### PURPOSE OF THE ACTIVITY:

Currently, the municipality is in the process of developing its streets with the purpose of creating greater mobility between its sectors. There is a genuine need to impact the urban area to allow them to have accessibility to the urban area. Once complete streets can be developed, the municipality will expanding their fixed route system to reach rural areas that are now difficult to access.

Study will allow the improvement of the transit system to enhance the accessibility to the citizens, especially seniors, individuals with disabilities to the commercial areas, urban areas, services areas and government offices within the municipality.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.



**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Grace Ortega, Municipality of Trujillo Alto

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Plan of Complete Streets for the Municipality of Trujillo Alto	F	-	\$100,000.00	\$100,000.00	
	S	-	-		
	T	-	\$100,000.00	\$100,000.00	

## **(Amendment #1) San Juan Urbanized Area**

University of Puerto Rico (UPR), Rio Piedras Campus

### Feasibility study for a transportation connectivity system in the El Cinco Sector Zone in Rio Piedras, San Juan.

#### PURPOSE OF THE ACTIVITY:

Despite the huge development potential of the area to be impacted, there is a problem of connectivity between the nodes of interest for visitors and tourists. To promote economic development in this sector, this project need connectivity among themselves and with the other facilities of the UPR and the urban area of Río Piedras. In order to establish the scope of the feasibility study, consultation with different agencies that would have jurisdiction in the project impact area.

This comprehensive plan will guide the conditions to execute the design and development of a space safe public in the area to be impacted and that it, in addition to being safe, be pleasant, both to the public and private transport such as pedestrians and cyclists.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers,

surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

**END PRODUCTS**

- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Jennifer Lugo, University of Puerto Rico

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Feasibility study for a transportation connectivity system in the El Cinco Sector Zone in Rio Piedras, San Juan	F	-	\$100,000.00	\$100,000.00	
	S	-			
	T	-	\$100,000.00	\$100,000.00	

## **(Amendment #1) Aguadilla Urbanized Area**

Municipality of Utuado

### Comprehensive Transportation Plan for the Municipality of Utuado

#### PURPOSE OF THE ACTIVITY:

The study will serve as a tool for the development of the transportation system. The goal is to boost the access and mobility of citizens and visitors in urban and tourist areas in Utuado. This will result in significant improvement of quality of life and economic development for our municipality and its residents and visitors. Study will allow the improvement of the transit system to enhance the accessibility to the citizens, especially seniors, individuals with disabilities to the commercial areas, urban areas, services areas and government offices within the municipality.

#### PREVIOUS WORK:

- Plan de Ordenación Territorial
- Plan Multimodal a Largo Plazo al 2045

#### METHODOLOGY/SCOPE OF WORK

- Preparation of the procurement process: RFP development, public notice publication, award, contract for professional services.
- Background and Plan Purpose
- Review of applicable Municipal and State planning documents, in order to assess the current land use and transportation framework.
- Provide an assessment of demographic trends and projections, with special emphasis on elderly population and population with disabilities.
- Provide an overview of economic and development trends and projections.
- Assess the transportation system, including road, transit, pedestrian and cyclist infrastructure.
- Include surveys for transit users and possible transit users, pedestrian, cyclists and car users.
- Develop a vision, goals and objectives, for the transportation system.
- Develop a set of scenarios for the transit system and selection of best and preferred transit alternative.
- Planning context and trends: Socioeconomic characteristics, income characteristics, housing stock and workforce characteristics.
- Municipal and Regional transportation systems: Major activity centers, surveys, evaluation of road infrastructure, needs and deficiencies, evaluation of proposed networks.

**END PRODUCTS**

- Transit system for the municipality
- Corridor routes profiles - schedules, type of vehicles
- Capital Improvements
- Paratransit Plan
- Maps of Transit and paratransit routes
- Recommendations, a completed socioeconomic study, routes profiles-schedule, analysis of the types of transit vehicles (size, passenger capacity, fuel efficiency, maps of transit and paratransit routes.)

**SCHEDULE:**

Start Date: October 2022; End Date: October 2023

**COORDINATED BY:**

Ramon Pagan Mercado, Municipality of Utuado

**COST AND FUNDING SOURCE:**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
Comprehensive Transportation Study for the Municipality of Utuado	F	-	\$100,000.00	\$100,000.00	
	S	-	-		
	T	-	\$100,000.00	\$100,000.00	

## Work element 4: Data Collection

Petitioner: PRHTA

## NTD "Públicos" Data Collection for San Juan, Aguadilla and all of Puerto Rico Urbanized Areas

### PURPOSE OF THE ACTIVITY

- Gather, analyze and summarize data on "público" service in Puerto Rico's TMAs, small UZAs and Non- UZAs. The data is used to estimate performance statistics which will be submitted to the NTD Reporting System.
- To calculate/estimate "público" service performance statistics for all Puerto Rico's UZA's. These statistics are related to the NTD Reporting System.
- To assist the DTPW/PRHTA in the preparation of the annual report of the "público" service for the NTD.
- To use a statistically valid sampling method –in compliance with FTA C2710.1A–in the gathering and estimation of passenger activities in the "público" system for all TMAs, UZAs and Non-UZAs.
- To coordinate with the DTPW/PRHTA staff and municipal officers from all municipalities of Puerto Rico to facilitate the collection of data and information related to the project.
- **To estimate "públicos" vehicles operating expenditures by cost item. Another objective is to present and estimating methodology that can be used each year in the preparation of the "públicos" system NTD Report.**

### PREVIOUS WORK:

NTD annual reports, June 2019-July2020

### METHODOLOGY/ SCOPE OF WORK:

- Initial Project Coordination
- Review and Implementation of Methodology
- Preparation to Conduct Field Surveys
- The training program administered to the field supervisors and field surveyors
- Design of Screenline Survey
- Design of Checkride Survey
- Execution of Screenline Survey and Checkride Survey
- Calculation of Público Service Statistics
- Calculation of NTD Público Service Statistics
- Collecting and Analyzing Data on Público Terminals
- Calculation of Deadhead, Layover and Loading Factors
- Meetings, Reports and Data Delivery

### END PRODUCTS:

- Progress Reports
- Monthly Reports
- Final Report

WORK SCHEDULE: This is a recurring activity.

COORDINATED BY:

- PRHTA: Federal Coordination Office and Strategic Planning Office

COST AND FUNDING SOURCE:

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
NTD "Publicos" Islandwide Data Collection.	F	\$820,000.00		\$820,000.00	
	S				
	T	\$820,000.00		\$820,000.00	
Additional \$20,000 was funded with section 5304. Funds are awarded in grant PR-2021-042-00					



Petitioner: PRHTA

## NTD Safety and Security Data Collection for San Juan, Aguadilla and all of Puerto Rico Urbanized Areas

### PURPOSE OF THE ACTIVITY

- To obtain a monthly report of accidents and incidents in the “público” transportation system as for San Juan Metropolitan Area, Aguadilla Metropolitan Area, all Puerto Rico’s small urbanized areas and six (6) rural municipalities required by FTA’s current regulations. This is a project managed by the PRHTA, but the Authority contracted a firm to collect the required data.
- The consultant firm will follow FTA requirements and all applicable Federal rules and regulations and will establish coordination with any third parties that gather, manage and/or control input data needed for FTA reporting purposes.
- Database system on Accidents and Incidents will be also web-enabled for remote read only access by DTPW/PRHTA officials for which technical coordination will be conducted with DTPW/PRHTA’s staff. Additionally, to assist the DTPW/PRHTA to develop and submit on time the Safety and Security Reports.

### PREVIOUS WORK:

Annual NTD Report 2019-2020

### METHODOLOGY/ SCOPE OF WORK:

- Initial Project Coordination
- Assessment of Project Requirements
- Methodology for Data Collection
- Development/Enhancement of Database Reporting System
- Data Collection: for major and non-major incidents on públicos in all designated areas.
- Delivery Reports

### END PRODUCTS:

- Progress Report
- Monthly Reports
- Final Report: A summary of all incidents will be presented according to the Safety Monthly Summary Incident Reporting form used by the NTD.
- The S&S-50 form, S&S-40 form and required information will be utilized as guideline.
- The Safety Monthly Summary Report form will capture monthly summary information on fires and other less severe safety incidents that are not

reported on the Major Incident Report. For each mode and type of service operated, one report will be completed every month. The report will be submitted in printed and digital format (PDF).

**WORK SCHEDULE:**

This is an ongoing task.

**COORDINATED BY:**

PRHTA: Federal Coordination & Office and Strategic Planning Office

**COST AND FUNDING SOURCE**

Description		Two Years Program		Total Estimated Cost	Remarks
		2022	2023	Est. Cost	
NTD "Publicos" Safety and Security Data Collection.	F	\$130,000.00		\$130,000.00	
	S	\$0.00		\$0.00	
	T	\$130,000.00		\$130,000.00	

Appendix A  
ONGOING PLANNING ACTIVITIES:  
Activities financed with Federal planning  
assistance awarded in previous fiscal years as  
carryover

ONGOING PLANNING ACTIVITIES									
									Status (as of March 2021)
Petitioner	Total	80%	20%	MPO	Planning Activity	Grant	Task	UPWP	
Cayey	\$100,000	\$80,000	\$20,000	SJUZA	Study of the Public Transportation Network and Viability of an Exclusive Route for the Public Transit System in the Urban Area of Cayey	PR-80-0006-01		2012-13	Municipality submitted petition to reopen the task.
Ponce	\$133,550	\$106,840	\$26,710	UZA	Completion of the Feasibility Study, NEPA compliance and the Preliminary Design for the SITRAS Maintenance Facility and Yard, for the Municipality of Ponce	PR-80-0006-01			Municipality is requesting additional funding for the completion of the project
Arroyo	\$52,000	\$41,600	\$10,400	UZA	Strategic Transit Plan	PR-80-0007		2014-2015	Final draft was submitted for evaluation
Carolina	\$80,000	\$64,000	\$16,000	SJUZA	Study for Establishing a Transit Corridor Between Isla Verde, the International Airport, and the Carolina's Traditional Downtown	PR-80-0007	13-02	2013-14	Municipality submitted petition to reopen the task.
Cidra	\$48,000	\$38,400	\$9,600	SJUZA	Implementation of the Transit System Plan	PR-80-0007	13-03	2013-14	Municipality submitted petition to reopen the task.
Coamo	\$60,000	\$48,000	\$12,000	SJUZA	Short Range Transit Plan for the Municipality of Coamo	PR-80-0007	13-04	2013-14	Final invoice was submitted. Task will be closed.
Florida	\$45,000	\$36,000	\$9,000	UZA	Short Range Transit Plan for the Municipality of Florida	PR-80-0007	13-06	2013-14	Final draft is under revision
Guayama	\$58,000	\$46,400	\$11,600	UZA	Short Range Transit Plan for the Municipality of Guayama	PR-80-0007	13-07	2013-14	RFP process is underway
Guayanilla	\$60,000	\$48,000	\$12,000	UZA	Short Range Transit Plan for the Municipality of Guayanilla	PR-80-0007	13-08	2013-14	Closed- funds will be reprogram
Lajas	\$60,000	48,000	12000	UZA	Strategic Transit Plan for the Municipality of Lajas	PR-80-0007	13-9	2013-14	Last invoice was submitted. Task will be closed.
Luquillo	\$57,000	\$45,600	11400	UZA	Strategic Transit Plan for the Municipality of Luquillo	PR-80-0007	13-10	2013-14	Study is underway
Patillas	\$55,000	\$44,000	\$11,000	UZA	Short Range Transit Plan for the Municipality of Patillas	PR-80-0007	13-13	2013-14	Closed- funds will be reprogram
Rincon	\$62,000	\$49,600	\$12,400	AUZA	Strategic Transportation Plan	PR-80-0007	13-14	2013-14	Time extension was requested
Rio Grande	\$60,000	\$48,000	\$12,000	UZA	Multimodal Transportation Plan	PR-80-0007	13-15	2013-14	Obligated
Salinas	\$60,000	\$48,000	\$12,000	UZA	Strategic Transit Plan for the Municipality of Salinas	PR-80-0007	13-16	2013-14	RFP process is underway
Vega Baja	\$60,000	\$48,000	\$12,000	SJUZA	Strategic Transit Plan	PR-80-0007	13-18	2013-14	Final report was submitted.
Santa Isabel	\$50,000	\$40,000	\$10,000	Rural	Short Range Transit Plan for Santa Isabel	PR-80-0007	13-17	2013-14	Municipality requested a new agreement.

Naguabo	\$48,000	\$38,400	\$9,600	SJUZA	Implementation of the Transit System Plan for the Municipality of Naguabo	PR-80-0007	13-11	2013-14	Final draft was submitted. Task to be closed.
Barceloneta	\$2,500,000	\$2,000,000	\$500,000	UZA	Feasibility Study for a Mass Transportation System Between Arecibo and Bayamón				Under FTA consideration
Barceloneta	\$60,000	\$48,000	\$12,000		Comprehensive & Feasibility Study	PR-2016-004	15-01		RFP process
Bayamón	\$225,000	\$180,000	\$45,000	SJUZA	Strategic Multimodal Transportation Plan	PR-2016-004	15-02	2015	Study was completed
Caguas	\$375,000	\$300,000	\$75,000	SJUZA	Planning and Design of Two Bikes Routes	PR-2016-004	15-03	2015	
Corozal	\$50,000	\$40,000	\$10,000	SJUZA	Transportation Improvement Plan	PR-2016-004	15-04	2015	Study is underway
Vega Alta	\$48,000	\$38,400	\$9,600	SJUZA	Strategic Plan for Future Transit Services	PR-2016-004	15-05	2015	RFP process
Aibonito	\$380,000	\$95,000	\$475,000	SJUZA	Feasibility Study for a Regional Transit Service Program for the Central Mountain Region	PR-2016-004	15-07	2015	Study is underway
PRITA	\$500,000	\$125,000	\$625,000	SJUZA	Regional Transit Plan	PR-2016-004	15-06	2015	
Cataño	\$40,800	\$40,800	Toll Credits	SJUZA	Strategic Multimodal Transportation Plan	PR-2019-002	3-1	2018-2019	Interagency Agreement underway
Toa Alta	\$43,040	\$43,040	Toll Credits	SJUZA	Toa Alta's Transit Service Development Plan	PR-2019-002	3-2	2018-2019	RFP process is underway
Canovanas	\$120,000	\$120,000	Toll Credits	SJUZA	Evaluation of the current transit system	PR-2019-002	3-3	2018-2019	RFP process is underway
Vega Baja	\$144,000	\$144,000	Toll Credits	SJUZA	Feasibility study for the implementation of a Complete Streets Policy	PR-2019-002	3-4	2018-2019	RFP process is underway
Moca	\$48,000.00	\$48,000.00	Toll Credits	AUA	Moca Transit Feasibility Study	PR-2019-002	3-5	2018-2019	RFP process is underway
San Sebastian	\$21,200.00	\$21,200.00	Toll Credits	AUA	Feasibility study for the rehabilitation or new construction of the publicos terminal	PR-2019-002	3-6	2018-2019	Final invoice was submitted. Task will be closed.
Juana Diaz	\$64,000.00	\$64,000.00	Toll Credits	UZA	Sustainable Transportation Plan	PR-2019-002	3-7	2018-2019	RFP process is underway
Vieques	\$80,000.00	\$80,000.00	Toll Credits	Rural	Comprehensive Transportation Study	PR-2019-002	3-8	2018-2019	RFP process is underway
Guanica	\$56,000.00	\$56,000.00	Toll Credits	UZA	Elaboration and implementation of a public transit system	PR-2019-002	3-9	2018-2019	Interagency Agreement underway
Villalba	\$80,000.00	\$80,000.00	Toll Credits	UZA	Comprehensive Transit Study	PR-2019-002	3-10	2018-2019	Interagency Agreement underway
PRHTA	\$1,000,000.00	\$1,000,000.00	Toll Credits	Islandwide	ADA Transition Plan	PR-2019-002	3-11	2018-2019	RFP process is underway
PRHTA	\$974,814.00	\$974,814.00	Toll Credits	Islandwide	Short Range Planning Activities	PR-2019-002	3-12	2018-2019	
PRHTA	\$1,500,000.00	\$1,500,000.00	Toll Credits	Islandwide	Transit Asset Management Plan	PR-2019-002	3-13	2018-2019	Task was completed.
Humacao	\$64,000.00	\$64,000.00	Toll Credits	San Juan	Evaluation of the Public Transportation System for the Municipality of Humacao	PR-2019-018-01-00		2020-2021	Interagency Agreement underway

Vega Baja	\$32,000.00	\$32,000.00	Toll Credits	San Juan	Development of an evacuation plan in response/recovery to emergencies/natural disasters for the Municipality of Vega Baja	PR-2019-018-01-00		2020-2021	Interagency Agreement underway
Morovis	\$60,800.00	\$60,800.00	Toll Credits	San Juan	Congestion Study for the Municipality of Morovis	PR-2019-018-01-00		2020-2021	First invoice was submitted.
Las Marias	\$61,280.00	\$61,280.00	Toll Credits	Aguadilla	Comprehensive Transit Study for the Municipality of Las Marias	PR-2019-018-01-00		2020-2021	Interagency Agreement underway
Yauco	\$64,000	\$64,000	Toll Credits	UZA	Evaluation of the Transit System of the Municipality of Yauco	PR-2019-018-01-00		2020-2021	Interagency Agreement underway
Hatillo	\$48,000	\$48,000	Toll Credits	UZA	Strategic Plan for the Transportation Program of the Municipality of Hatillo	PR-2019-018-01-00		2020-2021	Interagency Agreement underway
PRHTA	1,000,000	1,000,001	Toll Credits	Islandwide	Public Transportation Agency Safety Plan (PTSAP)	PR-2019-018-01-00		2020-2021	Task is underway.
Aguas Buenas	\$55,000	\$55,000	Toll Credits	San Juan	Feasibility study for the transit system for the Municipality of Aguas Buenas	PR-2020-004-00		2020-2021	Interagency Agreement underway
Lares	\$70,000	\$70,000	Toll Credits	Aguadilla	Evaluation of the transportation system of the Municipality of Lares	PR-2020-004-00		2020-2021	Interagency Agreement underway
Cabo Rojo.	\$80,000	\$80,000	Toll Credits	UZA	Comprehensive Transportation Study for the Municipality of Cabo Rojo.	PR-2020-004-00		2020-2021	Interagency Agreement underway
Canovanas	\$110,000	\$110,000	Toll Credits	San Juan	Feasibility Analysis for the Implementation of Complete Streets Policy in the Municipality of Canovanas	PR-2020-004-00		2020-2021	Interagency Agreement underway
Yabucoa	\$80,000	\$80,000	Toll Credits	San Juan	Planning for Pedestrian and Bicycle Plan for the Municipality of Yabucoa	PR-2020-004-00		2020-2021	Interagency Agreement underway
ATM	\$300,000	\$300,000	Toll Credits		Study for the establishment of transit routes for the users of the Maritime System- Island Service	PR-2020-004-00		2020-2021	Interagency Agreement underway
Toa Baja	\$130,000	\$130,000	Toll Credits	San Juan	Comprehensive Transportation Plan for the Municipality of Toa Baja	PR-2020-004-00		2020-2021	Interagency Agreement underway
Universidad Interamericana	\$100,000	\$100,000	Toll Credits	UZA	San German Campus Transportation Services Hub Viability and Development Study	PR-2020-004-00		2020-2021	Interagency Agreement underway
Universidad Sagrado Corazon	\$100,000	\$100,000	Toll Credits	San Juan	Feasibility for a Multimodal Transit System for Universidad Sagrado Corazon	PR-2020-004-00		2020-2021	Interagency Agreement underway
Tren Urbano	\$450,000	\$450,000	Toll Credits	San Juan	Revitalization Plan (Transit Oriented Development) for the ATI-TU rail stations	PR-2020-004-00		2020-2021	Interagency Agreement underway

Appendix B  
State Planning and Research (SPR)  
Program

## URBAN TRANSPORTATION PLANNING - INTRODUCTION AND SUMMARY OF FUNDS

**a. SAN JUAN TRANSPORTATION MANAGEMENT AREA (SJ-TMA) - TASK 614**

**Responsible Office(s):** Area of Programming and Special Studies: Strategic Planning Office

**Contact:** Axel Bierd Rivera, Int. Director (787) 721-8787 ext. 3604

**BACKGROUND AND CONTEXT:**

The Strategic Planning Office is under the Programming and Special Studies Area, as part of the infrastructure directorate. The **Strategic Planning Office (SPO)** conducts studies and generates multimodal transportation planning activities and products, with the support of other Offices, as discussed in the following sections.

In order to maintain transportation planning as a continuous, cooperative, and comprehensive valid and relevant process in the Metropolitan Areas of Puerto Rico, the Strategic Planning Office manages, coordinates and elaborates required or special transportation studies for urbanized areas, develops multimodal regional, statewide and special plans; and conducts several transportations related technical and citizen's participation activities. In addition, it evaluates public and private projects and plans and, through the site-permitting process, helps protect installed capacity and ROW needed for planned improvements. The SPO also advises the Secretary, the PRHTA Executive Director and other officials on diverse policy and planning issues, and generates and distributes planning information.

Following applicable public policies and federal and state regulations, these transportation planning activities emphasize on early consideration of environmental issues, stakeholders' involvement, public participation per the Fixing America's Surface Transportation Act (FAST-Act) of December, 2015 and most recent approved regulation (23 CFR Parts 450 and 771, and 49 CFR Part 613 of May, 2016).

There are eleven (11) Urbanized Areas for Puerto Rico, according to 2010 Census. The configuration of the San Juan and Aguadilla UZAs prevail as over 200,000 inhabitants' category, and are therefore considered "Transportation Management Areas" or **TMA**s until further noticed by federal regulations. Puerto Rico does not foresee significant changes in this regard.

Figure 1 shows the Transportation Planning Regions (TPRs) comprised by San Juan and Aguadilla TMA's, and remaining UZA regions. These TPRs in most cases define geographical areas that may include more than one urbanized areas as per Census definition, including non-urbanized municipalities, so that they conform to more logical planning units as established in 23CFR Part 450.



Figure1. Transportation Planning Regions (TPRs)



## OBJECTIVE

The main objective is to strengthen the capacities of the SPO, the Agency, and the MPO developing studies addressed to update transportation plans, and which can also enhance the operation of the facilities in the transportation system, both roads as public transport and non-motorized modes that pursue a context of livable and sustainable cities and places to ensure and improve mobility and access to the population through participatory processes.

In general, this TASK aims toward ensuring that: (1) transportation plans remain responsive to land use plans, policies and strategies, and the protection of the natural environment and historic heritage; (2) the transportation plan remains continuously consistent with current socio-economic growth and traveling patterns, and changes occurring in the study area; (3) priority allocation of existing and future funds remains consistent with socio-economic needs and development policies; (4) traffic trends information is available for further studies and design purposes; (5) the adopted Plan will contribute to the quality life improvement, and finally; (6) provisions are taken for the recommended implementation of a Congestion Management Process (CMP), as well as measures pertaining to Transportation System Management (TSM), Incident Management (IM) and Demand Management Measures (DMM). All of this is to be advanced while ensuring consistency with the transportation plans of adjacent metropolitan areas, and provisions of the Island wide Plan.

The following are specific objectives addressing these issues for this fiscal year:

- Complete metropolitan transportation plan for San Juan TMA in the long term as provided in federal regulation (23 CFR Part 450, and 49 CFR part 613 of May, 2016).
- Continue with the process of public involvement through stakeholder’s committees and workshops for the development of the 2045 LRTP.
  - To establish a database management system for congestion management reporting and transportation plans update process.
  - Improve in-house research capacity through Cube transportation model software by attending software training and developing research agenda according to LRTP goals and objectives.

**ACCOMPLISHMENTS DURING 2019-2020**

During this period, the SPO will complete a Spanish version of the 2045 Long Range Transportation Plan to comply with federal regulations. The structure of the 2045 LRTP webpage will continue as a tool to keep MPO Policy Committee and citizens informed of the activities.

SPO is emphasizing in performance-based system defining a congestion management monitoring and reporting and the performance-based framework. The congestion management process, regarding highway performance, will report according to goals and performance measures established, and expanding its scope to incorporate reliability integrating methodological procedures published by the Strategic Highway Research Program (SHRP2). During this fiscal year will be structuring and defining this emphasis. Funding for the ITC project specified in Task 601 will also be provided by this task.

**PROPOSED WORK FOR 2020-2021**

SPO will developed a new RFP document.

Key Activities	Key Milestones	End Product	Estimated Completion Date
<b>2045 Long Range Metropolitan Plan</b>	Complete Spanish version	2045 LRTP in Spanish	completed
<b>Congestion Management</b>	Data collection	Database for congestion management	Completed
	Data Analysis	Report	September 30, 2021

Programmed Amount for FY 2019-2020	\$400,000.00
Expended Amount as of May 2020	\$7,396.00
<b>Estimated Cost for 2020-2021</b>	<b>\$12,500.00</b>
Carry Forward SPR-57	\$37,500.00
<b>TASK 614 Total for 2020-2021</b>	<b>\$50,000.00</b>

**AGUADILLA TRANSPORTATION MANAGEMENT AREA (A-TMA) - TASK 615**

**Responsible Office(s):** Area of Programming and Special Studies:  
Strategic Planning Office

**Contact:** Axel Bierd Rivera, INT. Director (787) 721-8787 ext. 3604

**BACKGROUND AND CONTEXT:**

The Strategic Planning Office is under the Programming and Special Studies Area, as part of the infrastructure directorate. The **Strategic Planning Office (SPO)** conducts studies and generates multimodal transportation planning activities and products, with the support of other Offices, as discussed in the following sections.

In order to maintain transportation planning as a continuous, cooperative, and comprehensive valid and relevant process in the Metropolitan Areas of Puerto Rico, the Strategic Planning Office manages, coordinates and elaborates required or special transportation studies for urbanized areas, develops multimodal regional, statewide and special plans; and conducts several transportations related technical and citizen's participation activities. In addition, it evaluates public and private projects and plans and, through the site-permitting process, helps protect installed capacity and ROW needed for planned improvements. The SPO also advises the Secretary, the PRHTA Executive Director and other officials on diverse policy and planning issues, and generates and distributes planning information.

Following applicable public policies and federal and state regulations, all of these transportation planning activities emphasize on early consideration of environmental issues, stakeholders' involvement, public participation according to the Fixing America's Surface Transportation Act (FAST-Act) of December, 2015 and most recent approved regulation (23 CFR Parts 450 and 771, and 49 CFR Part 613 of May, 2016).

There are eleven (11) Urbanized Areas for Puerto Rico, according to 2010 Census. The configuration of the San Juan and Aguadilla UZAs prevail as over 200,000 inhabitants' category, and are therefore considered "Transportation Management Areas" or **TMA**s until further noticed by federal regulations. Puerto Rico does not foresee significant changes in this regard.

Figure 1 shows the Transportation Planning Regions (TPRs) comprised by San Juan and Aguadilla TMA's, and remaining UZA regions. These TPRs in most cases define geographical areas that may include more than one urbanized areas as per Census definition, including non-urbanized municipalities, so that they conform to more logical planning units as established in 23CFR Part 450.

Figure1. Transportation Planning Regions (TPRs)



## OBJECTIVE

The main objective is to strengthen the capacities of the SPO, the Agency, and the MPO developing studies addressed to update transportation plans, and which can also enhance the operation of the facilities in the transportation system, both roads as public transport and non-motorized modes that pursue a context of livable and sustainable cities and places to ensure and improve mobility and access to the population through participatory processes.

In general, this TASK aims toward ensuring that: (1) transportation plans remain responsive to land use plans, policies and strategies, and the protection of the natural environment and historic heritage; (2) the transportation plan remains continuously consistent with current socio-economic growth and traveling patterns, and changes occurring in the study area; (3) priority allocation of existing and future funds remains consistent with socio-economic needs and development policies; (4) traffic trends information is available for further studies and design purposes; (5) the adopted Plan will contribute to the quality life improvement, and finally; (6) provisions are taken for the recommended implementation of a Congestion Management Process (CMP), as well as measures pertaining to Transportation System Management (TSM), Incident Management (IM) and Demand Management Measures (DMM). All of this is to be advanced while ensuring consistency with the transportation plans of adjacent metropolitan areas, and provisions of the Island wide Plan.

The following are specific objectives addressing these issues for this fiscal year:

- Complete metropolitan transportation plan for Aguadilla TMA in the long term as provided in federal regulation (23 CFR Part 450, and 49 CFR part 613 of May 2016).
- Continue with the process of public involvement through stakeholder’s committees and workshops for the development of the 2045 LRTP.
  - To establish a database management system for congestion management reporting and transportation plans update process.
  - Improve in-house research capacity through Cube transportation model software by attending software training and developing research agenda according to LRTP goals and objectives.

**ACCOMPLISHMENTS DURING 2019-2020**

SPO completed the Spanish version of the 2045 Long Range Transportation Plan during this period to complying with federal regulations. The structure of the 2045 LRTP webpage will continue as a tool to keep MPO Policy Committee and citizens informed of the activities.

SPO is emphasized in performance-based system defining a congestion management monitoring and reporting and the performance-based framework. The congestion management process, regarding highway performance, will report according to goals and performance measures established, and expanding its scope to incorporate reliability integrating methodological procedures published by the Strategic Highway Research Program (SHRP2). During this fiscal year will be structuring and defining this emphasis.

**PROPOSED WORK FOR 2020-2021**

SPO will developed a new RFP document. Funding for the ITC project specified in Task 601 will also by provided by this task.

Key Activities	Key Milestones	End Product	Estimated Completion Date
<b>2045 Long Range Metropolitan Plan</b>	Complete Spanish version	2045 LRTP in Spanish	completed
<b>Congestion Management</b>	Data collection	Database for congestion management	Completed
	Data Analysis	Report	September 30, 2021

Programmed Amount for FY 2019-2020	\$15,000.00
Expended Amount as of May 2020	\$9,099.00
<b>Estimated Cost for 2020-2021</b>	<b>\$12,500.00</b>
Carry Forward SPR-57	\$37,500.00
<b>TASK 615 Total for 2020-2021</b>	<b>\$50,000.00</b>

## REGIONAL TRANSPORTATION PLANNING FOR URBANIZED AND RURAL AREAS (RURAL AND UZAS LESS THAN 200,000 INHABITANTS) - TASK 622

**Responsible Office(s):** Area of Programming And Special Studies: Strategic Planning Office

**Contact:** Axel Bierd Rivera, INT. Director (787) 721-8787 ext. 3604

**BACKGROUND AND CONTEXT:**

The Strategic Planning Office is under the Programming and Special Studies Area, as part of the infrastructure directorate. The **Strategic Planning Office (SPO)** conducts studies and generates multimodal transportation planning activities and products, with the support of other Offices, as discussed in the following sections.

In order to maintain regional transportation planning as a continuous, cooperative, and comprehensive valid and relevant process in the rural and urbanized areas of Puerto Rico, the Strategic Planning Office manages, coordinates and elaborates required or special transportation studies for urbanized areas, develops multimodal regional, statewide and special plans; and conducts several transportation related technical and citizen's participation activities. In addition, it evaluates public and private projects and plans and, through the site-permitting process, helps protect installed capacity and ROW needed for planned improvements. The SPO also advises the Secretary, the PRHTA Executive Director and other officials on diverse policy and planning issues, and generates and distributes planning information.

Following applicable public policies and federal and state regulations, all of these transportation planning activities emphasize on early consideration of environmental issues, stakeholders' involvement, public participation according to the Fixing America's Surface Transportation Act (FAST-Act) of December, 2015 and most recent approved regulation (23 CFR Parts 450 and 771, and 49 CFR Part 613 of May, 2016).

There are eleven (11) Urbanized Areas for Puerto Rico, according to 2010 Census. The configuration of the San Juan and Aguadilla UZAs prevail as over 200,000 inhabitants' category, and are therefore considered "Transportation Management Areas" or **TMA**s until further noticed by federal regulations. Puerto Rico does not foresee significant changes in this regard.

Figure 1 shows the Transportation Planning Regions (TPRs) comprised by San Juan and Aguadilla TMA's, and remaining UZA regions. These TPRs in most cases define geographical areas that may include more than one urbanized areas as per Census definition, including non-urbanized municipalities, so that they conform to more logical planning units as established in 23CFR Part 450.

Figure 1. Transportation Planning Regions (TPRs)



## OBJECTIVE

The main objective is to strengthen the capacities of the SPO, the Agency, and the MPO developing studies addressed to update transportation plans, and which can also enhance the operation of the facilities in the transportation system, both roads as public transport and non-motorized modes that pursue a context of livable and sustainable cities and places to ensure and improve mobility and access to the population through participatory processes.

In general, this TASK aims toward ensuring that: (1) transportation plans remain responsive to land use plans, policies and strategies, and the protection of the natural environment and historic heritage; (2) the transportation plan remains continuously consistent with current socio-economic growth and traveling patterns, and changes occurring in the study area; (3) priority allocation of existing and future funds remains consistent with socio-economic needs and development policies; (4) traffic trends information is available for further studies and design purposes; (5) the adopted Plan will contribute to the quality life improvement, and finally; (6) provisions are taken for the recommended implementation of a Congestion Management Process (CMP), as well as measures pertaining to Transportation System Management (TSM), Incident Management (IM) and Demand Management Measures (DMM). All of this is to be advanced while ensuring consistency with the transportation plans of adjacent metropolitan areas, and provisions of the Island wide Plan.

The following are specific objectives addressing these issues for this fiscal year:

- Complete metropolitan transportation plans (San Juan and Aguadilla) in the long term as provided in federal regulation (23 CFR Part 450, and 49 CFR part 613 of May 2016).
- Continue with the process of public involvement through stakeholder’s committees and workshops for the development of the 2045 LRTP.
- Establish a database management system for congestion management reporting and transportation plans update process.
- Improve in-house research capacity through Cube transportation model software by attending software training and developing research agenda according to LRTP goals and objectives.

**ACCOMPLISHMENTS DURING 2019-2020**

SPO completed the Spanish Version of the 2045 Long Range Transportation Plan during this period to complying with federal regulations. The structure of the 2045 LRTP webpage will continue as a tool to keep MPO Policy Committee and citizens informed of the activities.

SPO emphasized in performance-based system defining a congestion management monitoring and reporting and the performance-based framework. The congestion management process, regarding highway performance, will report according to goals and performance measures established, and expanding its scope to incorporate reliability integrating methodological procedures published by the Strategic Highway Research Program (SHRP2). During this fiscal year will be structuring and defining this emphasis.

**PROPOSED WORK FOR 2020-2021**

SPO will developed a new RFP document. Funding for the ITC project specified in Task 601 will also by provided by this task.

Key Activities	Key Milestones	End Product	Estimated Completion Date
<b>2045 Long Range Metropolitan Plan</b>	Complete Spanish version	2045 LRTP in Spanish	completed
<b>Congestion Management</b>	Data collection	Database for congestion management	Completed
	Data Analysis	Report	September 30, 2021

Programmed Amount for FY 2019-2020	\$200,000.00
Expended Amount as of May 2020	\$5,750.00
<b>Estimated Cost for 2020-2021</b>	<b>\$12,500.00</b>
Carry Forward SPR-57	\$37,500.00
<b>TASK 622 Total for 2020-2021</b>	<b>\$50,000.00</b>



Appendix C  
Description of the Federal  
Required Planning Documents

## APENDIX C

### DESCRIPTION OF THE FEDERAL REQUIRED PLANNING DOCUMENTS

<b>Document</b>	<b>Who Develops</b>	<b>Who Approves</b>	<b>Time Horizon</b>	<b>Content</b>	<b>Update Requirements</b>
<b>UPWP</b>	PRMPO- (PRHTA)	MPO & FTA	1-2 years	Planning Studies and Tasks	Annually- every federal fiscal year
<b>Metropolitan Long Range State Transportation Plan</b>	PRMPO- (PRHTA)	MPO	20 years	Future goals, strategies, and transportation projects at the metropolitan and regional level	Every 4- years
<b>TIP</b>	PRMPO- (PRHTA)	MPO/ Governor	4 years	Transportation Improvement Program	Every 4 years but can be more frequent
<b>Statewide Long Range State Transportation Plan</b>	State DOT – (HTA)	State DOT	20 years	Future goals, strategies, and transportation projects at the state/ Islandwide level	Not specified
<b>STIP</b>	State DOT- (PRHTA)	State DOT	4 years	Statewide Transportation Improvement Program	Every 4 years but can be more frequent