

Responsible Agency: Miami-Dade TPO

Participating Agencies: Federal Transit Administration (FTA), Federal Highway Administration (FHWA), Association of Metropolitan Planning Organizations (AMPO), National Association of Regional Councils (NARC), American, Florida Metropolitan Planning Organization Advisory Council (MPOAC), Florida Department of Transportation (FDOT), Florida's Turnpike Enterprise (FTE), Expressway Authority, Florida Department of Environmental Protection (FDEP), South Florida Regional Transportation Authority (SFRTA), Miami-Dade County Department of Transportation and Public Works (DTPW), Broward County Transit (BCT), Broward MPO, Palm Tran, Palm Beach Transportation Planning Agency (TPA), South Florida Regional Planning Council (SFRPC), Treasure Coast Regional Planning Council (TCRPC), and Local Municipalities

Purpose

This section outlines activities that support federal, state, and regional planning responsibilities that the Miami-Dade TPO coordinates and participates in to support the metropolitan transportation planning process.

A. Federal, State, and Regional Planning and Coordination (Miami-Dade TPO Activities)

Federal and state planning and coordination activities are supported through the active participation of the Miami-Dade TPO at national and state coordination committees and organizations. The Miami-Dade TPO participates in the Association of State Highway Transportation Officials (AASHTO), Association of Metropolitan Planning Organizations (AMPO) and National Association of Regional Councils (NARC), which serves as the national voice for regions by advocating for regional cooperation as the most effective way to address a variety of community planning and development opportunities and issues.

Federal, state, and regional planning and coordination activities support the evaluation of the regional network to ensure that it addresses key regional travel movements in a multimodal manner and are consistent with updates to the FDOT Strategic Intermodal System (SIS). The Florida Transportation Plan (FTP) is the single overarching statewide plan guiding Florida's transportation future and is developed by—and provide direction to—all organizations that are involved in planning and managing Florida's transportation system. As part of a statewide initiative to improve growth management planning, the Transportation Regional Incentive Program (TRIP) provides state funds for local governments and the private sector throughout the State of Florida to improve regionally significant public transportation facilities.

The Miami-Dade TPO participates in the Florida Metropolitan Planning Organization Advisory Council (MPOAC) and its standing committees, including the Staff Directors' Advisory Committee. MPOAC is a statewide transportation planning and policy organization created by the Florida Legislature to augment the role of individual MPOs in the cooperative metropolitan transportation planning process. The MPOAC assists MPOs in carrying out the urbanized area transportation process by serving a principal forum for collective policy discussion. The Miami-Dade TPO also provides professional planning support and coordination to the MPOAC special purpose committees including the Transit and Mobility Advisory Committee (TMAC).

The Southeast Florida Transportation Council (SEFTC) is the formal partnership between the three Metropolitan Planning Organizations within the Miami UZA through an Interlocal Agreement. SEFTC's primary purpose is to enhance coordination and communication between the Miami-Dade TPO, Broward MPO, and Palm Beach TPA for all regional planning efforts regarding transportation related initiatives.

The Miami-Dade TPO participates in ongoing coordination with SEFTC through its technical advisory committee and subcommittees:

1. Regional Transportation Technical Advisory Committee (RTTAC)
 - a. RTTAC Public Participation Subcommittee (PPS)
 - b. RTTAC Transportation System, Management, and Operations (TSM&O) Subcommittee
 - c. RTTAC Modeling Subcommittee (MS)

Regional planning activities are performed to support the adopted 2045 Regional Transportation Plan (RTP), which identifies the most significant transportation investments needed to meet growing travel demands throughout the Miami-Dade, Broward, and Palm Beach counties, and Miami-Dade TPO's adopted 2045 Long Range Transportation Plan (LRTP). To ensure a consistent planning effort with continuity across county boundary lines, regional planning activities also supports a regional performance measures evaluation and are conducted through coordination with regional partners and organizations and partners.

Activities	Scope	Deliverable/s	Completion
1	Provide administrative and technical support for activities associated with SEFTC, its technical advisory committee, and subcommittees.	Meetings, supporting materials	Quarterly
2	Coordinate, participate, and work cooperatively on regional transportation plans and issues with the SFRTA.	Meetings, supporting materials	Quarterly through PTAC
3	Coordinate with other TIP documents from MPOs within the Miami UZA to recognize projects on the regional network.	Coordination for the Regional Transportation Plan	Annually through SEFTC
4	Coordinate, review, and recommend TRIP priorities for adoption by the SEFTC and transmittal to FDOT.	Updated TRIP Priority List	Annually through SEFTC
5	Participate and coordinate with transportation partners through statewide and national committees and organizations.	Meetings, presentations and supporting materials	June 2022
6	SFRPC to provide technical support and/or perform various technical analyses and/or studies to support regional planning efforts. SFRPC Supported Effort: \$50,000 FY 21	Studies, technical reports, presentations, technical memorandums	June 2022

B. Southeast Regional Planning Model (SERPM) Development and Maintenance (Shared Regional Tasks)

The SERPM is a modeling tool which uses scenario forecasting to prepare for new socioeconomic environments and potential planning challenges within Southeast Florida. SERPM is updated every five years to support the development of regional and local transportation plans, and other regional planning efforts.

Memorandums of Understanding (MOU) have been entered jointly by the Miami-Dade TPO, Broward MPO, Palm Beach TPA, and FDOT Districts Four and Six, to develop an effective travel demand modeling tool and transportation data collection methods for transportation planning in the Tri-County Region. The MOUs covers the following activities: a) on-going travel demand modeling efforts related to SERPM 8 maintenance (*Activity 7*), b) future tasks to support the next generation of SERPM, also referred to as SERPM 9 (*Activities 8 and 9*), and c) Regional Origin/Destination "Big Data" Travel Data acquisition for the Regional Transportation Model (*Activity 10*).

As outlined in Table 6, the regional partners agree to fund and lead the activities as previously defined in the MOUs.

**Table 6: Funding Sources for Shared Regional Planning Activities with Partner Agencies
FYs 21 & FY 22 Totals**

Activity 7: SERPM Model Maintenance (SERPM 8.0) - Lead Agency: FDOT D4											
Funding Agency	PL		5305(d)		SU		State Funds		Local Funds		Total
	FY 21	F22	FY 21	FY 22	FY 21	F22	FY 21	F22	FY 21	F22	
FDOT D4								\$12,500			\$12,500
FDOT D6								\$12,500			\$12,500
Broward MPO						\$8,500					\$8,500
Miami-Dade TPO		\$8,000								\$2,000	\$10,000
Palm Beach TPA						\$6,500					\$6,500
TOTALS	\$0	\$8,000	\$0	\$0	\$0	\$15,000	\$0	\$25,000	\$0	\$2,000	\$50,000

Activities 8 & 9: SERPM 9.0 Model Development - Lead Agency: Miami-Dade TPO											
Funding Agency	PL		5305(d)		SU		State Funds		Local Funds		Total
	FY 21	F22	FY 21	FY 22	FY 21	F22	FY 21	F22	FY 21	F22	
FDOT D4							\$125,000	\$125,000			\$250,000
FDOT D6							\$125,000	\$125,000			\$250,000
Broward MPO					\$85,000	\$85,000					\$170,000
Miami-Dade TPO			\$80,000			\$100,000	\$10,000		\$10,000		\$200,000
Palm Beach TPA					\$65,000	\$65,000					\$130,000
TOTALS	\$0	\$0	\$80,000	\$0	\$150,000	\$250,000	\$260,000	\$250,000	\$10,000	\$0	\$1,000,000

Activity 10: Regional Transportation Model Big Data - Lead Agency: Broward MPO											
Funding Agency	PL		5305(d)		SU		State Funds		Local Funds		Total
	FY 21	F22	FY 21	FY 22	FY 21	F22	FY 21	F22	FY 21	F22	
FDOT D4							\$37,500	\$37,500			\$75,000
FDOT D6							\$37,500	\$37,500			\$75,000
Broward MPO					\$12,500	\$12,500					\$25,000
Miami-Dade TPO	\$24,000					\$30,000			\$6,000		\$60,000
Palm Beach TPA					\$20,000	\$20,000					\$40,000
Broward County									\$12,500	\$12,500	\$25,000
TOTALS	\$24,000	\$0	\$0	\$0	\$32,500	\$62,500	\$75,000	\$75,000	\$18,500	\$12,500	\$300,000

Denotes transfer to the lead agency as identified per regional task (in italics)

****All Federal funds, including fund transfers, apply the required non-federal match**

Activities Shared Regional Tasks

Activities	Scope	Deliverable/s	Completion
7	Provide administrative and technical support, including training, documentation, and maintenance service for activities to maintain urban modeling and forecasting/SERPM, provide model support for other planning projects, and optimize model usability/user-friendliness.	Training Workshops	Annually/As requested by RTTAC-MS
		Comprehensive Performance Measures report on modeling modules	June 2021
		In-house computer equipment to perform SERPM simulations and analyses	June 2022
8	Develop a 2020 based Southeast Florida Regional Planning Model (SERPM) covering the Miami Urbanized Area, which includes Palm Beach, Broward and Miami-Dade Counties, which accurately reflects the travel demand patterns and markets for regional transit and highway projects, and to make the model available in time for the 2050 LRTP plan updates. Consultant Supported Effort: See Table 6 for details	Model estimate and Design Report Data Collection, Compilation and Development Report	June 2022
		Model Calibration, Validation and Sensitivity Test Plan	June 2022
		SERPM networks, Model User Guide, Model training and support, SERPM along with all its scripts and program codes developed for the project.	June 2022
9	Analyze future trends utilizing the added features and capabilities of the SERPM. Perform an analysis of model convergence related to the distribution of work trips from selected major employment centers.	Updated Traffic Analysis Districts (TADs)/Super-Districts	Annually/As requested by RTTAC-MS
10	Acquire a big data set (including Origin/Destination, travel time, travel speed, travel volumes or other transportation related data) to support the validation and calibration of the regional model, support evaluation of federal performance measures and other activities related to the metropolitan transportation planning process.	Big Data set containing Origin/Destination, travel time, travel speed, travel volumes and other transportation related data	December 2021

Carry Forward Activities

Carry forward activities from the previous UPWP cycle for federal, state, and regional planning activities include:

- SERPM 8 Maintenance, led by the FDOT District Four

Table 7: Budget Summary for Task II

Year 1: FY 2021											
Budget Category	FHWA (PL)	FY 2020 Carry Forward FTA 5305(d)			FY 2021 FTA 5305(d)			SU	State Funds	Local Funds	Totals
	Federal**	Federal	State 10% Match	Local 10% Match	Federal	State 10% Match	Local 10% Match				
Salaries & Fringes	\$32,000				\$91,630	\$11,500	\$11,500			\$8,000	\$154,630
County Service Fee*	\$2,400				\$6,800	\$900	\$900			\$600	\$11,600
Consultant Services											
A. Coordination	\$40,000									\$10,000	\$50,000
B. (Activities 8 & 9 SERPM)		\$80,000	\$10,000	\$10,000							\$100,000
Consultant Services Total											\$150,000
Transfers to the TPO[†]											
B. From FDOT District 4 and 6, BMPO, PBTPA (Activities 8 & 9)								\$150,000	\$250,000		\$400,000
Transfers from the TPO											
B. (Activity 10) Transfer to Broward MPO****	\$24,000									\$6,000	\$30,000
TASK II TOTALS	\$74,400	\$80,000	\$10,000	\$10,000	\$98,430	\$12,400	\$12,400	\$150,000	\$250,000	\$18,600	\$716,230
Year 2: FY 2022 [§]											
Budget Category	FHWA (PL)	FY 2021 Carry Forward FTA 5305(d)			FY 2022 FTA 5305(d)			SU	State Funds	Local Funds	Totals
	Federal**	Federal	State 10% Match	Local 10% Match	Federal	State 10% Match	Local 10% Match				
Salaries & Fringes	\$104,648				\$8,800	\$1,100	\$1,100	\$19,477		\$26,162	\$161,287
County Service Fee*	\$7,913				\$664	\$83	\$83	\$1,470		\$1,977	\$12,190
Consultant Services											
B. SERPM								\$100,000			\$100,000
Consultant Services Total											\$100,000
Transfers to the TPO[†]											
B. From FDOT District 4 and 6, BMPO, PBTPA (Activities 8 & 9)								\$150,000	\$250,000		\$400,000
Transfers from the TPO											
B. (Activity 10) Transfer to Broward MPO****								\$30,000			\$30,000
B. (Activity 7) Transfer to FDOT D4***	\$8,000									\$2,000	\$10,000
TASK II TOTALS	\$112,561	\$0	\$0	\$0	\$9,464	\$1,183	\$1,183	\$120,947	\$250,000	\$28,139	\$673,477

*County Service Fees are 10% of salaries only; fringes not included. † As per the approved MOU, transfer to Miami-Dade TPO for Development of SERPM 9.0 (Consultant Services).

§ The budget and PL funds are illustrative for year 2 until approved by the appropriate entities.

** FDOT uses toll credits as the "soft match" against FHWA PL Funds

****Not included in the total, Transfer to Broward MPO, ***Not included in the total, Transfer to FDOT District 4