



MPO: **Miami-Dade TPO**

Revision Number: **5**

Reason: **To identify funds for Department of Transportation & Public Works (DTPW) to support TPO Task Forces Efforts in Task III (Activity 38). Activities are funded with existing budgeted efforts under Task III (Activity 38). Funding includes FTA 5305(d) and local funds. No net change to Task III or UPWP total budget result from this modification. Funds transferred from Consultant Category to DTPW (see attached budget table).**

Fiscal Year: **2021**

Part of De-Ob: **No**

Fund:

Form: **1** of: **1**

FUNDING CHANGES

Revision Type: **MODIFICATION**

Task #	Task Name	Original \$	Proposed \$	difference
III	D- Future Areas of Emphasis - Activity 38	\$ 170,000	\$ 170,000	\$0
TOTAL FUNDING CHANGE		\$ 170,000	\$ 170,000	\$0
UPWP Fiscal Year 2021 Total Budget		\$ 11,088,019	\$ 11,088,019	\$0

REQUIRED DOCUMENTATION: MODIFICATION

- Original & Proposed: Task Pages (including task budget tables), Fund Summary Budget Table, Agency Participation Budget Table • Signed Cost Certification

APPROVALS

FDOT	Reviewer: Josennie Bermudez	Date: 6/9/21	Action: Modification - No Action
	Comments:		
FHWA	Reviewer:	Date:	Action:
	Comments:		
FTA	Reviewer:	Date:	Action:
	Comments:		

Responsible Agency: Miami-Dade TPO

Participating Agencies: FDOT, FTE, MD-RER, MD-DTPW, Expressway Authority, SFRTA, Local Municipalities

Purpose

This task is organized to include all aspects of the Miami-Dade TPO's technical program, and highlights activities associated with new and recurring planning studies and projects. These studies and projects include the SMART Plan, multimodal and intermodal planning studies, data collection to support the development of the planning studies, and general planning consultant/on-demand services. Activities under the Technical Program task reflect the TPO's commitment to 1) implementing the SMART Plan, 2) incorporating all transportation modes—such as vehicles, bus/trolley and rail transit, walking, bicycling, freight, on-demand services and water modes—as appropriate, 3) maintaining the existing and future roadway/highway network at acceptable levels of service and plan for the future of the roadway network to ensure system connectivity between all modes of transportation, 4) ensuring a comprehensive, cooperative, and continuing metropolitan transportation planning process, 5) exploring future planning areas of emphasis, and 6) incorporating promising transportation/land use impact analysis techniques and procedures into the metropolitan transportation planning process to the fullest extent feasible.

A. SMART Plan & Programs

SMART Plan activities support the implementation of the mass transit projects identified in the People's Transportation Plan (PTP). The Strategic Miami Area Rapid Transit (SMART) Plan intends to advance six rapid transit corridors along with a network system of Bus Express Rapid Transit (BERT Service) within Miami-Dade County:

Rapid Transit Corridors

- 1) Beach Corridor
- 2) East-West Corridor
- 3) Kendall Corridor
- 4) North Corridor
- 5) Northeast Corridor
- 6) South Dade Transitway

Bus Express Rapid Transit (BERT) Regional Network

- A) Flagler Corridor
- B) South Miami-Dade Express
- C) Northwest Miami-Dade Express
- D) Southwest Miami-Dade Express
- E) Florida's Turnpike Express (North & South)
- F) Beach Express (North, Central and South)

The SMART Plan corridors will support the economic development activities of the County, including major events.

The SMART Demonstration Program projects are developed in partnership with the Florida Department of Transportation (FDOT), Florida Turnpike Enterprise (FTE), Miami-Dade Department of Transportation and Public Works (DTPW), South Florida Regional Transportation Authority (SFRTA) and numerous local municipalities with the goals of increasing accessibility to transit, offering new congestion relief options to residents countywide, and beginning implementation of the vision of the SMART Plan. The SMART Plan Demonstration Program projects support the advancement of SMART Plan elements including first/last mile demonstration solutions, design and construction of new SMART Plan express routes, new trolley service routes, on-demand service area routes, and transit service stations.

The SMART Moves Program is used by the TPO to prioritize and program planning studies in Miami-Dade County that will support the delivery of projects including first/last mile connections, connected and autonomous vehicles and other priority projects that enhance mobility, safety, accessibility, and integration of the entire transportation network. The SMART Moves program promotes the implementation of community-based methods and cost-effective solutions that

will lead to increased accessibility to transit and new congestion relief options for residents. The SMART Moves Program has two main components:

- Municipal Program: Encourage Miami-Dade County municipalities to participate in a competitive program for the implementation of relevant transportation planning studies and plans that will lead to improved mobility, safety, and accessibility.
- Public Input: To solicit transportation planning ideas from the general public and other agencies that will promote mobility, safety and accessibility.

Activities	Scope	Deliverable/s	Completion
1	Participate and provide technical support on the SMART Plan Rapid Transit Corridors Project Development and Environmental (PD&E) studies being led by the FDOT and DTPW. Work to be Accomplished: Review documents and any other written/digital material submitted by the agencies and provide comments as needed. Consultant Supported Effort: \$165,000 FY 21	Spreadsheets including comments on PD&E studies, technical memorandums and presentations	June 2022
2	Development of transit corridor plans and economic mobility master plans with emphasis on multimodal first and last mile connectivity, feeder networks and trails, transit hubs, parking demand, and transit infrastructure, amenity, and access improvements that support mobility, accessibility, and the creation of new urban centers along SMART Plan corridors. Work to be Accomplished: Develop transit corridor and economic mobility plans following the recommended alternatives from the Project Development and Environment (PD&E) studies for the SMART Plan corridors. Develop mobility strategies to be applied to the Corridors. Rank proposed station locations for further evaluation. Maximize station accessibility through improvement of the infrastructure or services at the station, and around the station; and the potential for development around the station of residential and employment opportunities that best support transit users. Consultant Supported Effort: \$ \$153,000 FY 21	Technical memorandums, TOD design guidelines, conceptual plans and presentations, Transit Corridor Plans	Per the project development LPA/by December 2021
3	Compile and prepare status report for all SMART Plan Rapid Transit Corridors and other corridors identified through long-range transportation planning. Develop progress report outlining activities carried out, tasks completed, and milestones reached every quarter, annually and/or as needed.	Transit corridor progress/status reports	June 2022
4	Perform market demand analyses, by corridor and system-wide, to evaluate economic mobility growth scenarios with value capture initiatives and potential revenue management, as well as to evaluate the creation of new Central Business Districts (CBD) or Economic Development Zones (EDZ). Evaluate economic mobility growth considering the results of the financial plan and high-level corridor market analysis. Review of workforce economic mobility using corridor GIS coverages of employment centers, training centers, and demographic indicators of potential need.	Market demand analyses and assessments, technical memorandums, and presentations	Per the project development LPA

Activities Cont.	Scope	Deliverable/s	Completion
5	Complete remaining work for the Kendall Corridor as part of the systemwide corridor developments based on land use scenario efforts. Work to be Accomplished: Complete the travel demand forecasting tasks associated with the Kendall Corridor as part of advancing the SMART Plan for each of the six SMART Plan corridors. Consultant Supported Effort: \$3,000 FY 21	SMART Corridor STOPS Analysis for proposed recommended land use and selected locally preferred alternative impacts on the Kendall corridor. Model output reports; technical result reports.	Per the project development LPA
6	Evaluate roles and responsibilities for the implementation of each of the SMART Plan corridors and develop a Program Management Plan (PMP). Develop plan outlining requirements and all functional areas of Project Management Plan to identify the roles and responsibilities for management, administration, staffing needs, planning, and scheduling activities for the implementation of each of the Corridors.	PMP for each SMART Plan corridor	June 2022
7	Assess existing land use and develop future land use scenarios, including Transit Oriented Development (TOD) along SMART Plan Corridors, to support the future rapid transit system and recommend land use policy regulation, laws, and ordinances modifications for each SMART Plan Corridor that address the overall community vision, goals, and objectives. Work to be Accomplished: Develop land use scenarios to support the vision of the respective communities and ridership demand for the proposed rapid transit investment along the corridor. Analyze scenarios to be consistent with the FTA's Capital Investment Grant Program. Evaluate FTA's model results and refine land use scenarios to support the LPA. Develop overarching vision along the corridor utilizing and refining the results of the scenario planning efforts. Recommend land use policy and regulations changes for the corridor addressing the community overall vision, goal, and objective. Consultant Supported Effort: \$159,000 FY 21	Technical Memorandums including Strategies Evaluation, Scenarios Development and Testing, Land Use Policy Regulations Recommendations, and Visioning Plans.	Per the project development LPA
8	Assess economic and social impacts/benefits, public support, land uses and policies—including commercial and affordable housing—and funding, to provide an in-depth analysis of regional strengths, weaknesses, opportunities, and implementation strategies. Work to be Accomplished: Develop a systemwide economic model using the most appropriate and available tools and complete analysis of potential economic impacts/benefits due to transportation improvements along the corridor. Perform quantitative analysis of the impact of transit expansion on the economic activity. Conduct the evaluation of the potential economic development growth based on the results of the modeling tool.	Comprehensive Economic Development Plan	June 2022

Activities Cont.	Scope	Deliverable/s	Completion
9	<p>Develop performance measures/monitoring tool to track development trends, including residential, commercial, and institutional growth, along the SMART Plan corridors. Work to be Accomplished: Develop a Transit Oriented Development Performance Monitoring Tool (TOD PMT) to provide the TPO and other agencies with current information on development trends along the SMART Plan corridors, which will allow monitoring of residential, commercial, and institutional growth. This tool will provide evidence about the economic development, progress towards the livability, equity, and the environmental goals of the SMART Plan. The TOD PMT will summarize complex data through an intuitively simple interface, designed to support agencies coordination and it will be easy to access via the internet. Consultant Supported Effort: \$271,000 FY 21</p>	<p>Technical Memorandums for existing conditions, framework, software routines. Performance Monitoring Tool Beta and Final Web Version, Training handbook for users.</p>	June 2021
10	<p>Develop real-time mobility travel data tool to accelerate and support the decision-making process of the SMART Plan. Work to be Accomplished: Develop a Congestion Management Dashboard (CMD) to track real-time mobility travel data in Miami-Dade County to accelerate and support the decision-making process for the SMART Plan. Build a web-based platform in coordination with the FDOT, County, local governments, and stakeholder groups to provide user-friendly congestion management information access and easier reporting tools on the transportation network. The information from the dashboard will also be used to monitor SMART Plan benefits on the transportation network and will align strategies, objectives and investments within the region to ensure resources are dedicated to reducing congestion within the metropolitan area. Consultant Supported Effort: \$100,000 FY 21</p>	<p>Technical Memorandums summarizing data collection, literature review, framework, Beta and Final Tool version, results on the Dashboard</p>	December 2021
11	<p>Use visualization tools to enhance/support the implementation of the SMART Plan. Work to be Accomplished: Prepare assortment of visualization tools to communicate to the public and elected official the planning and conceptual design work elements. Create unique visions, themes or environments of sustainable transit supportive urban design framework. Consultant Supported Effort: \$ 32,000 FY 21</p>	<p>Web based tools, GIS, presentations, illustrations, digital newsletters and fact sheets, animations of pre/post conditions, rendering, and other advanced techniques</p>	June 2022
12	<p>Prepare system-wide capital, construction, operation and maintenance costs. Develop and update as needed capital, construction, operation and maintenance cost for system-wide/corridor alternatives using the latest cost database/spreadsheets/tools from federal/state/county agencies, as appropriate.</p>	<p>Cost estimates, spreadsheets/tables</p>	June 2022

Activities Cont.	Scope	Deliverable/s	Completion
13	Prioritize and manage funds and revenues to support the implementation, operation and maintenance of the SMART Plan, to continue growth of the transit network as a sustainable system. Provide financial and fiscal analysis to support SMART Planning efforts.	Financial/Capital Plan, Technical memorandums and presentations	June 2022
14	Develop financial strategies and mechanisms for the implementation of the SMART Plan and provide a road map for the advancement of financially sustainable SMART Plan corridors. Work to be Accomplished: Recommendations for financial strategies, financial analyses, financial implementation plan, presentations and technical memorandums. Consultant Supported Effort: \$200,000 FY 21 & FY 22	Strategic Implementation Plan and Financial Models	June 2022
15	Evaluate the interrelationship between each corridor in the SMART Plan, assessing short, medium, and long-term opportunities to enhance SMART Plan connections to a more fully integrated system. Perform analysis associated with the interrelationship of each corridor selected LPA mode and supporting land use. Evaluate short, medium and long-term improvements to be advanced for the implementation of the SMART Plan.	Technical memorandums, and presentations	June 2022
16	Develop and review system-wide ridership forecasts to evaluate the integration and connectivity among the SMART Corridors as requested by the FTA using the FTA Simplified Trips on Project Software (STOPS) models. Develop and calibrate a Miami-Dade STOPS model to support the SMART Plan Corridors ridership forecasts. Work to be Accomplished: Conduct on-board transit surveys to obtain transit Origin-Destination data to be used to develop an incremental Miami Dade STOPS model calibrated for 2020 conditions, in order to support SMART Plan projects funding applications for FTA's New Starts program. Provide TPO with in house capabilities to be able to conduct analysis in-house for future SMART plan corridor planning efforts. Consultant Supported Effort: \$1,588,526 FY 21	Corridor/Scenario Ridership Forecast. Processed On-board Origin-Destination Transit Survey Data and tablet survey instrument design along with corresponding survey sampling plans. Survey Training Manual, Pilot survey results and in-house modeling equipment for TPO to conduct internal transit analysis	June 2022
17	Conduct public engagement and outreach activities to support the SMART Plan. Develop and manage Public Involvement efforts including Public Information Plan (PIP) for the SMART Plan. Secure a suitable location(s) to conduct public meetings/workshop/charrette. Prepare kick-off presentation and provide opportunities for input by stakeholders. Conduct planning and design meetings/workshop/charrette in an appropriate format to reveal design issues and generated ideas with facilitators working with participants. Create, refine and illustrate conceptual plans within the study area.	Public charrettes/workshops & reports Public Information Plan Written/digital outreach materials	June 2022

Activities Cont.	Scope	Deliverable/s	Completion
18	Develop, coordinate, implement pilot projects that advance elements of the SMART Plan and strategic transportation initiatives; and support public engagement efforts with partner agencies for SMART Plan Demonstration projects and quick build projects as part of the first/last mile network in Miami-Dade County. Activities include professional planning services as required to advance the SMART Plan and support TPO Task Forces in the development of complete street concepts that will implement quick build projects as part of the first/last mile network in Miami-Dade County. Work to be Accomplished: Including but not limited to development of drawings for implementation of the pilot projects, from conceptual design through permit documents, evaluation and analysis of quick build program initiatives through robust monitoring and evaluation effort for each project, including the use of innovative techniques, refinement of project scopes and cost estimates, preparation of renderings and presentations to showcase innovative concepts, preparation of analysis and documents to support grant applications, and any initiatives identified by the TPO Task Forces. Consultant Supported Effort: \$304,000 FY 22	Technical reports, coordination, and presentations, public involvement, project application and delivery	Annually/June 2022
19	Monitor pilot projects and prepare technical memorandums or reports in coordination with partner agencies for SMART Demonstration projects.	Technical reports, technical support.	As requested by partner agencies and/or TPO Board
20	Provide technical or coordination assistance for selected SMART Moves Program studies, plans, and/or ideas, to municipal partners and the general public, as applicable, including the following studies:	Technical reports, coordination, and presentations	June 2022

Act. Cont.	Scope
	<p><u>Municipal portion beginning in FY 2021:</u></p> <ul style="list-style-type: none"> • City of Doral Boulevard Corridor Study: Work to be Accomplished: To recommend access management improvements including median treatments and median opening improvements and develop a conceptual streetscape along Doral Boulevard from NW97 Avenue to the Palmetto Expressway. The study will also include the development of intersection and crosswalk pavement treatments for the intersections of NW 87 Avenue and NW 79 Avenue at Doral Boulevard. Award amount: \$56,000 City contribution \$14,000 Total \$70,000 • Town of Cutler Bay Transportation Master Plan Update: Work to be Accomplished: To update the existing plan which will evaluate and incorporate technological advancements such as autonomous shuttle pilot programs, electric vehicle, and curb management infrastructure planning. This update will take a more regional approach that is forward-thinking, progressive, modern, and strives to incorporate citizen concerns reported over the past five years. Award amount: \$100,000 Town contribution \$25,000 Total \$125,000 • City of Miami Update of Bicycle Master Plan: Work to be Accomplished: Update of the City of Miami Bicycle Master Plan to include several area plans and incorporate pedestrian safety and mobility to help make the effort more utilitarian and appealing to a broader audience. Goals will include setting multi-modal targets, identifying opportunities, and developing project lists that will provide essential data for the 15-year capital plan. Award amount: \$75,000 City contribution: \$100,000 Total: \$175,000 • Village of Palmetto Bay Multi-Use Trail Feasibility Study: Work to be Accomplished: Consider the feasibility of constructing multi-use pathways from South Dade Trail to Old Cutler Trail to improve pedestrian and bicycle accessibility, connectivity and safety into the SMART Plan's South Dade Transitway, with the goal of reducing the use of single-occupant vehicles and traffic. Conceptual design of up to two (2) multi-use trails based on available right-of-way. Award amount \$80,000 Village contribution: \$20,000 Total \$100,000 • North Bay Village SR 934/79th Street Causeway Corridor Study: Work to be Accomplished: The overall goal of this project is to establish the feasibility of converting JFK Causeway into a complete streets concept that promotes multi-modal transportation and supports businesses. The objectives of this project are to: Identify policies required to promote the roadway improvements; conduct a lane elimination study; conduct a context classification study; coordinate with FDOT to review and approve requested improvement. Award amount: \$60,000 Village contribution \$15,000 Total \$75,000 • Village of Miami Shores Flagler Trail Greenway Study: Work to be Accomplished: To analyze the potential for a continuous north/south walking and bicycling route through the Village. The Flagler Trail Greenway Study will identify specific non-motorized transportation improvements that will become part of work programs for the Village and its transportation partners. The overall goal of this project is to analyze and evaluate options for building Miami Shores' portion of the Flagler Trail within Village right-of-way along Club Drive from NE 87th Street to NE 107th Street (Village south and north boundaries, respectively). Award amount: \$40,000 Village contribution: \$10,000 Total \$50,000 • City of Miami Beach First-Last Mile Connection to the SMART Plan Study: Work to be Accomplished: To update the city's Transportation Master Plan with first/last mile connections to the SMART Plan, integrate the findings of the North-South Coastal Communities Master Plan and explore automated, connected, shared mobility projects with a focus of providing for implementation of new technologies to increase ridership. Award amount \$60,000 City contribution: \$15,000 Total: \$75,000

Activities Cont.	Scope
20 Cont.	<p><u>General Public portion beginning in FY 2021:</u> Provide studies related to these categories:</p> <ul style="list-style-type: none"> • Complete streets studies including analysis to implement bicycle, pedestrian and shared use access facilities. Work to be Accomplished: Form a Study Advisory Committee, identify location, collect data, establish street types, create design standards and typical sections, develop detailed design solutions and produce conceptual designs for key locations and facilities, estimate cost of implementation, recommend prioritization of projects and produce final report. Consultant Supported Effort: \$80,000 FY 21 • SMART Transit improvements including feasibility and implementation of express routes on major thoroughfares or expansion of existing systems. Work to be Accomplished: Form a Study Advisory Committee, identify corridor, literature review, data collection, conduct a needs analysis, right-of-way availability, prepare evaluation matrix, recommend improvements, prepare final report. Consulted Supported Effort: \$155,056 FY 21 <p><u>General Public portion beginning in FY 2022:</u></p> <ul style="list-style-type: none"> • First/Last mile connections to the SMART Plan: Work to be Accomplished: Develop a Study Advisory Committee, identify corridor(s), conduct literature research and review existing conditions, develop strategy and objectives, develop a toolkit, collect data along the corridor(s), develop implementation plan for selected transit hubs. Make recommendations and produce final report. Consulted Supported Effort: \$70,000, FY 22 • Connected and autonomous vehicles study and implementation of pilots, including safety considerations: Work to be Accomplished: Develop Study Advisory Group, review existing related documents, facilitate a workshop for all stakeholders, examine best practices, review best policies enacted by various departments of transportation, run the Connected Vehicle Capability Maturity Model, develop a strategic plan with near and long-term recommendations and develop final document. Consulted Supported Effort: \$130,000 FY 22

B. Multimodal/Intermodal Planning: Transit, Freight, Bicycle, Pedestrian

Multimodal and intermodal planning activities support the planning and integration of all transportation modes within the Miami-Dade TPO planning area, including as appropriate:

Transit – Supporting transit-related initiatives, and Transit-Oriented Development planning studies, from local transit providers, municipalities, and other agency partners.

Freight – Identifying freight and goods transportation needs including improving current and future access to intermodal terminals and major economic centers, identifying inland cargo sites, characterizing truck traffic flow issues and proposed solutions, identifying and developing truck parking sites, supporting ongoing global economic competitiveness initiatives in freight and commerce, and continue coordination with the Freight Transportation Advisory Committee (FTAC) as a forum to discuss freight needs.

Non-motorized: Bicycle & Pedestrian – Removing barriers to provide access to public facilities in compliance with the Americans with Disabilities Act (ADA), improving access to practical destinations for people who are walking or riding a bike, creating first and last-mile connections to existing and future transportation networks.

Activities Cont.	Scope	Deliverable/s	Completion
21	Coordinate with agencies to develop and plan non-motorized projects. The Transportation Alternatives Program (TAP) is a set-aside of Surface Transportation Block Grant (STBG) Program. Projects that are eligible for funding through TA include bicycle and pedestrian facilities, vegetation management, environmental mitigation, and the rehabilitation of historic transportation facilities.	Transportation Alternatives Program List of Priority Projects	Annually
22	Work with the Miami-Dade County Public Schools Community Traffic Safety Team to identify, prioritize, and develop and support applications for Safe Routes to School (SRTS) infrastructure improvements. Work to be Accomplished: For the public schools (Elementary, Middle and High) selected by the School Board CTST, obtain and summarize available data necessary to identify critical SRTS improvements. A site assessment of the selected schools is done to verify existing data, obtain other relevant data and identify preliminary safe routes to be finalized in coordination with the Department of Transportation and Public Works (DTPW) and the CTST. Through data collection, site assessments and consultation with school resources, identify safe routes to the selected schools and any deficiencies to the safe routes. Preparation of a prioritized list of recommended improvements with cost estimates. Needs that are operational in nature and not eligible for Safe Routes to School funding will be identified, summarized by school and responsible agency and documented in the final report. SRTS Infrastructure Improvement funding application for each of the selected schools is submitted to FDOT by December of each year. Consultant Supported Effort: \$70,000 FY 21 & 22	Prioritization, Funding Applications and Infrastructure Plans, Construction Support	Annually
23	Continue plans review for Americans with Disabilities Act (ADA) required infrastructure improvements. DTPW supported effort \$33,000 FY 2021	Cost estimates, Prioritized Work Orders, Construction Support and Final Inspections	Quarterly
24	Support transit initiatives by reviewing updates to Transit Development Plans (TDPs), special transit studies, and transit ridership forecasts.	Review and provide comments, attend workshops	As requested by partner agencies/ June 2022
25	Support obtaining national or other strategic designations for intermodal facilities such as ports and major roadways.	Letters of support, Technical support	As request by partner agencies

Activities Cont.	Scope	Deliverable/s	Completion
26	Continue working with FDOT District 6 on sub-area freight planning efforts. FDOT District 6 has identified a strategy to help advance its freight and logistics system focused on partnering with local communities to develop subarea freight plans; these freight focused plans will help identify freight mobility strategies at the project level. These planning level studies will assess freight accessibility to and from each sub-area and will develop strategies to enhance access and improve freight mobility. Two of the sub-area studies (Hiialeah and Homestead) are currently in progress. TPO role is to provide coordination, input and recommendations on the freight efforts through FTAC.	Technical support, coordination	June 2022
27	Respond to public requests from public agencies, consultants, and the public for existing and future mobility options for the movement of freight and people.	Technical reports, Responses to Public Information Requests	June 2022
28	Perform various mobility studies to determine multimodal transportation needs including but not limited to bicycle, pedestrian, transit, complete streets, first/last mile initiatives, trail master plans and other mobility initiatives to support the metropolitan planning process.	Various mobility and transportation studies	As requested by TPO and/or partner agencies/June 2022
29	Identify freight transport needs and provide technical support for the FTAC including preparation of requested freight plans and studies to be consistent with the TIP and LRTP. Coordinating with FDOT District Coordinator on FDOT initiatives (Sub-Area Freight efforts, INFRA Grant applications, Freight Priorities Program) to be reviewed by FTAC. Continued discourse with FTAC members for input and recommendations on truck parking, freight movements, traffic bottlenecks, inland cargo sites, impact of new technologies, etc. along with local agencies, Port Miami, Miami-Dade Aviation, and Florida's Turnpike Enterprise.	Supporting documents and recommendations, and technical reports	June 2022
30	Identify non-motorized transportation modes, including bicycle and pedestrian travel, and provide technical support for the BPAC including preparation of requested non-motorized transportation plans and studies to be consistent with the TIP and LRTP. Coordinating with FDOT and DTPW for monthly project updates to the BPAC. Discussion and review of various public and private non-motorized initiatives for the increase of safety for pedestrians and cyclists including Walk to School and Bike to Work. Annual participation in the review of Transportation Alternatives (TA) program, Safe Routes to School, and SMART Moves.	Supporting documents and recommendations, and technical reports	June 2022

Activities Cont.	Scope	Deliverable/s	Completion
31	Provide meeting management support to the Rail~Volution Local Host Committee. Prepare for and organize recurring Local Host Committee meetings. Prepare and track the schedule leading up to the conference and the week of the conference. Manage the Local Host Committee and various subcommittees. Lead and manage “behind-the-scenes” during the conference, assisting the various elements such as session support, local host committee support, mobile workshop support, welcome reception support, PK slam support and other various Rail~Volution activities. Develop digital and/or hardcopy collateral on behalf of the Local Host Committee. All activities are to remain flexible to be in-person, virtual, or a mixture of both. Work to be Accomplished: Meeting preparation, facilitation and attendance; Development and tracking of organization and management tools; Creation of collateral materials.	Local Host Committee meeting attendance and summaries; Local Host Committee organization and management tools; Collateral materials for Rail~Volution attendees on behalf of Local Host Committee (may include digital materials)	June 2022
32	Host and coordinate the Safe Streets Summit regional event in 2022, which educates public officials, technical staff, and other individuals on the importance of designing safe, equitable, and health-promoting transportation facilities for all modes of transportation and for all users. This event is a regional collaboration between the Miami-Dade Transportation Planning Organization, the Broward Metropolitan Planning Organization, and the Palm Beach Transportation Planning Agency. Work to be Accomplished: Venue preparation, program preparation, facilitation and attendance. Development of mobile workshops, conference themes and topics, marketing and multimedia management, press releases, registration management and logistics. Consultant Supported Effort: \$60,000 FY 22	Agenda meetings and summaries, conference program, promotional materials, press releases, venue contract, mobile workshop program, and organization and management tools	June 2022

C. Roadway/Highway Network

The Miami-Dade TPO plays a role in ensuring the existing and future highway network is maintained and operating at acceptable levels of service, as well as ensuring that transit and highway impacts for future/planned developments are fully considered and coordinated with system-wide initiatives. Miami-Dade TPO activities also support the integration and connectivity of the transportation system across and between modes for people and freight.

Activities Cont.	Scope	Deliverable/s	Completion
33	Support Miami-Dade County by assessing and/or verifying highway and transit impacts and providing comments throughout various stages of the planning development process as well as ensuring consistency of TPO plans with the Comprehensive Development Master Plan (CDMP).	Zoning/Development Application Comments	Annually/As requested by RER
		Reviews of CDMP Amendment Applications	Bi-annually/As requested by RER
34	Perform analyzes of existing transportation data to determine transportation needs and impacts including but not limited to travel demand and air quality modeling, corridor planning, intersection impact, and future travel projections.	Various mobility and transportation analyses	As requested by TPO and/or partner agencies/June 2022

Activities Cont.	Scope	Deliverable/s	Completion
35	Perform analysis to support highway system connectivity across and between modes for people and freight in Miami-Dade County. Work to be Accomplished: Update of system wide level of service (LOS) conditions including State and County facilities, evaluation of SMART signal system implementation and intersection improvements, and provide recommendations for future system improvements to support the LRTP/TIP. Consultant Supported: \$80,000 FY 21	Technical reports, presentations, technical memorandums	June 30, 2022

D. Future Areas of Emphasis

These planning activities address future planning emphasis areas set by state, federal, and local agencies. Planning emphasis areas set by the state also support the implementation of the seven goals of the Florida Transportation Plan and the Miami-Dade TPO's Long Range Transportation Plan through embracing innovation, requiring extensive collaboration across jurisdictions, modes and disciplines, emphasizing customer service, data and performance feedback, and strategic investments for the efficient and effective allocation of resources.

Activities Cont.	Scope	Deliverable/s	Completion
36	Provide assistance to implementing agencies that wish to deploy emerging technologies including Automated, Connected, Electric, and Shared-Use Vehicles (ACES) through coordination with transportation partners. Provide support through reviews and recommendations of technical studies and/or strategic plans that evaluate the implementation of emerging technologies. Coordinate with agencies to develop and plan increased automation, optimization, and connectivity through Internet of Things (IoT) for people and goods.	Technical support, coordination, technical reports, multimodal studies, strategic plans, feasibility studies for deployment of Automated, Connected, Electric and Shared Use Technologies	As requested by TPO and/or partner agencies/June 2022
37	Provide technical studies that evaluate Automated, Connected, Electric and Shared Vehicles implementation through the implementation of the SMART Demonstration Program. The study will assess the institutional, infrastructure, communications, and operations maintenance requirements to implement emerging technologies in Miami-Dade County. Work to be Accomplished: The study will provide a background of the literature and an evaluation of the current status of the TPO's SMART Demonstration Program. The study will assess transit gap areas and the implementation of proposed strategies assessing Shared Mobility Options, Automated and Connected Technologies. The effort will include coordination through input, and review and comment of a Study Advisory Group, and presentations to Technical and Citizen Advisory committees of the TPO.	Technical reports, presentations to TPO Governing Board and committees, final report. List of Priority projects for implementation	June 2022

Activities Cont.	Scope	Deliverable/s	Completion
38	Identify professional planning services as required to advance the SMART Plan and support TPO Task Forces in the development of complete street concepts that will implement quick build projects as part of the first/last mile network in Miami-Dade County. Work to be Accomplished: Including but not limited to preparation of planning and policy analysis to support policy changes to facilitate the ongoing countywide adoption of the quick build methodology, identification of pilot projects, data collection and analysis, development of a project selection framework, recommendation for project selection, and activities to engage the TPO Task Forces. Development of project scope and conceptual costs. Public Involvement Activities, including community engagement events and stakeholder meetings that will help advance the conceptualization and implementation of quick build projects. Participate and provide technical support for studies that identify sustainability strategies including Resilient 305, Miami-Dade Greenprint and other local and/or regional efforts. Studies can include environmental, technology, economic, and/or social impacts in Miami-Dade County. Consultant/ DTPW Supported Effort: \$170,000 FY 21	Technical reports, coordination, and presentations, public involvement, project application and delivery	As requested by TPO Task Forces and/or partner agencies/June 2022

E. Technical Program Support/Data Collection: Socioeconomic & Land Use Data, Highway Traffic Counting Program

These planning activities support the coordination of long and short-range land use and demographic data collection with the metropolitan transportation planning process, as well as monitoring levels of vehicle, pedestrian, and bicyclist traffic activity. The socioeconomic database is compiled and maintained using local land use files, property information, employment information and U.S. Census materials such as American Community Survey (ACS), Longitudinal Employer-Household Dynamics (LEHD), and LEHD Origin-Destination Employment Statistics (LODES).

Activities Cont.	Scope	Deliverable/s	Completion
39	Develop transit corridor economic mobility growth scenarios and master plans with emphasis on multimodal first/last mile connectivity, transit hubs, parking demand, etc.	Transit Corridor Master Plans, market demand analyses	As requested by partner agencies and/or TPO /June 2022
40	Assessment of Transit Oriented Development (TOD) analysis and Land Use scenarios for existing and future conditions to support future rapid transit system.	Transit supportive land use studies	As requested by partner agencies and/or TPO /June 2022
41	Maintain a current and accurate socioeconomic database and evaluate proposed changes to the new base and forecasted year databases. Review local land use files, property information, employment information and U.S. Census databases and update databases as needed.	Socioeconomic dataset	Annually

Activities Cont.	Scope	Deliverable/s	Completion
42	Perform a review of Traffic Analysis Zones (TAZ)/Micro Analysis Zones (MAZ) with the new forecasted year database, and update boundaries based on major land use changes that impact travel patterns at the TAZ level. Review TAZ boundaries in support of the 2020 Census.	Updated MAZ/TAZ Boundaries	As requested by RER
43	Collect vehicle count data through traffic monitoring stations—and bicycle and pedestrian count data, as needed— throughout Miami-Dade. Coordinate with municipal and highway agencies non-motorized traffic count efforts. Work to be Accomplished: Collect traffic counts at 400 stations sites for calendar year 2021 and 2022. Convert raw data to Average Weekday Daily Traffic. Prepare and maintain database containing historical traffic counts stations. Coordinate with RER stations to be counted each year. DTPW Supported Effort: \$123,000 FY 21	AWDT for the stations counted, Traffic Count trends and historical database	Annually, by calendar year (CY)
		Bicycle/Pedestrian data and reports	As requested by partner agencies and/or TPO, by calendar year (CY)
44	Support on-going transportation planning initiatives by supporting the development of alternative land use scenarios, providing technical reports and data, and by reviewing transportation-related projects/activities for consistency with metropolitan plans and policies. RER Supported Effort: \$40,000 FY 21 & FY 22	Alternative Land Use scenarios, technical reports and data	As requested by partner agencies and/or the public

F. General Planning Consultant (GPC)/On-Demand Services

The TPO has a rotation of five (5) consulting firms which comprise the General Planning Consultant (GPC) pool to assist staff in conducting transportation planning related activities. These consultants are selected every three (3) years through a competitive selective process adhering to the Internal Services Department of Miami-Dade County's procurement process and Consultant's Competitive Negotiation Act (CCNA). Tasks are assigned on an as-needed basis, based on experience and expertise. Scopes of Work (SOW) are developed to support the activities included in the adopted UPWP. Activities included in the UPWP may be assigned by TPO to staff and/or GPC/On-Demand Services. Activities not included in the UPWP, require the approval of the Miami-Dade TPO Governing Board.

Activities Cont.	Scope	Deliverable/s	Completion
45	Identify professional planning services, as needed, in support of the metropolitan planning process. Work to be Accomplished: Including but not limited to area-wide transportation planning studies, multimodal studies, transportation feasibility studies, technology innovation, road safety audits, complete streets, fiscal services, mobility and livability strategies, evaluation of criteria and monitoring, mobility hubs study, first/last mile connections, materials for public meetings, recorded transcripts of meetings, oral briefings, preparation of photographic or rendered graphics, printing of documents, videos, graphic displays, training and development, technical reports, developing manuals, public-private partnership efforts, reversible lanes studies, mobility solutions, Transit Oriented Development (TOD) evaluations, bicycle/pedestrian, compliance, connected and autonomous technologies, freight, master plans, and summit or major outreach efforts. Consultant Supported Effort: \$882,000 FY 21, \$520,000 FY 22 (see activities 46 through 49)	Scopes of Work (SOW)	June 2022
46	Update and analyze existing transportation data to determine transportation needs including travel demand and air quality modeling, level of service (LOS), and future travel projections.	Data Analysis	June 2022
47	Data collection for traffic and transit information such as traffic counts, crashes, on-board surveys, passenger counts, vehicle delays, etc.	Raw Data Files	June 2022
48	Preparation and maintenance of visualization tools such as Geographic Information Systems (GIS) maps, graphics, presentations, and reports. Certain maps will need to be updated on a set periodic time of annually or as determined in the scope of services.	GIS maps, graphics, presentations, reports, etc.	June 2022
49	Any other miscellaneous activity deemed important and necessary to support the metropolitan transportation planning process and the activities identified in the Unified Planning Work Program.	Miscellaneous/as determined by Scope of Work	June 2022

Carry Forward Activities

Carry forward activities for the SMART Plan include:

- Land Use Scenario for the East-West Corridor and Kendall Corridor
- Economic Mobility and Access for the East-West Corridor and Kendall Corridor
- TOD Monitoring Tool
- Congestion Management Dashboard
- Systemwide Forecasting
- STOPS 2020 for:
 - Administration including Metrorail/Metromover
 - Central Garage
 - Northeast and Coral Way Garages
 - Contracted Routes and Municipal Circle

Carry forward activities for the SMART Moves Program include:

- City of Aventura/Ojus Mobility Access Study
- Florida City Mobility Study
- SW 244 Street Mobility Hubs Study Unincorporated Miami-Dade County

Table 8: Budget Summary for Task III

Year 1: FY 2021									
Budget Category	FHWA (PL)	FY 2020 Carry Forward FTA 5305(d)			FY 2021 FTA 5305(d)	Carry Forward SU	Local Funds	State Funds	Totals
	Federal**	Federal	State 10% Match	Local 10% Match	Federal**				
Salaries & Fringes	\$13,120	\$831,079	\$103,885	\$103,885	\$103,955		\$14,830		\$1,170,754
County Service Fee*	\$1,000	\$63,317	\$7,915	\$7,915	\$7,920		\$1,130		\$89,197
Consultant Services									
A. SMART Plan	\$58,400	\$172,000	\$21,500	\$21,500	\$244,625	\$2,540,000	\$67,919		\$3,361,000
SMART Moves General Public								\$235,056	
B. Multimodal/Intermodal	\$56,000						\$14,000		\$70,000
C. Roadway/Highway	\$64,000						\$16,000		\$80,000
D. Future Areas of Emphasis	\$96,000				\$45,000		\$29,000		\$170,000
					\$38,250		\$28,250		\$162,500
F. GPC/On-Demand	\$540,800				\$185,400		\$155,800		\$882,000
Consultant Services Total									\$4,563,000
Other Departments									
E. To RER	\$32,000						\$8,000		\$40,000
C, D & E To DTPW	\$72,000	\$26,400	\$3,300	\$3,300	\$29,700		\$21,300		\$156,000
					\$36,450		\$22,050		\$163,500
TASK III TOTALS	\$933,320	\$1,092,796	\$136,600	\$136,600	\$616,600	\$2,540,000	\$327,979	\$235,056	\$6,018,951
Year 2: FY 2022 ^s									
Budget Category	FHWA (PL)	FY 2021 Carry Forward FTA 5305(d)			FY 2022 FTA 5305(d)	FY 2022 SU	Local Funds	State Funds	Totals
	Federal**	Federal	State 10% Match	Local 10% Match	Federal**				
Salaries & Fringes	\$35,760				\$325,664	\$801,300	\$49,648	\$40,708	\$1,253,080
County Service Fee*	\$2,736				\$24,944	\$61,450	\$3,802	\$3,118	\$96,050
Consultant Services									
A. SMART Plan						\$704,000			\$704,000
B. Multimodal/Intermodal						\$130,000			\$130,000
F. GPC/On-Demand						\$520,000			\$520,000
Consultant Services Total									\$1,354,000
Other Departments									
E. To RER	\$32,000						\$8,000		\$40,000
TASK III TOTALS	\$70,496				\$350,608	\$2,216,750	\$61,448	\$43,826	\$2,743,130

*County Service Fees are 10% of salaries only; fringes not included.

*§ 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 and FTA 5305(d) Funds.*