SEPTEMBER 2019

TECHNICAL REPORT 10 INTERACTIP/LRTP PROJECT RACKING SYSTEM UPDATE

SUPPORTING DOCUMENTS







MIAMI-DADE

LONG RANGE TRANSPORTATION PLAN (LRTP)

TECHINCAL REPORT 10 INTERACTIP/LRPT PROJECT TRACKING SYSTEM UPDATE

This document was prepared by the Miami-Dade Transportation Planning Organization (TPO) in collaboration with the Florida Department of Transportation (FDOT) District Six, Miami-Dade Expressway Authority (MDX), Florida's Turnpike Enterprise (FTE), South Florida Regional Transportation Authority (SFRTA), Miami-Dade Department of Transportation and Public Works (DTPW), Miami-Dade Regulatory and Economic Resources (RER) Department, Miami-Dade Aviation Department (MDAD), Miami-Dade Seaport Department, Miami-Dade County Office of Strategic Business Management, City of North Miami, City of Hialeah, City of Miami, City of Miami Beach, City of Miami Gardens, City of Homestead, Miami-Dade County Public Schools, Miami-Dade TPO Citizens' Transportation Advisory Committee (CTAC), Miami-Dade TPO Bicycle/ Pedestrian Advisory Committee (BPAC), Miami-Dade TPO Freight Transportation Advisory Committee (FTAC), Transportation Aesthetics Review Committee (TARC), Broward County Metropolitan Planning Organization (MPO), Palm Beach County Transportation Planning Agency (TPA), and the South Florida Regional Planning Council (SFRPC).

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GOALS, OBJECTIVES, & PERFORMANCE RESULTS

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PREPARED FOR:



Miami-Dade Transportation Planning Organization (TPO)

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CONTENTS

INTRODUCTION	. 1
2045 LRTP PROJECT INFORMATION UPDATE	3
WEBSITE INTERFACE AND FUNCTION	.4
InteracTIP Website	6
Interactive Project Tool and Purpose	9
TIP/LRTP Project Tracking/Reporting	19

LIST OF FIGURES

FIGURE 1 -	Miami-Dade TPO Website4
FIGURE 2 -	Miami-Dade TPO Website – InteracTIP Link4
FIGURE 3 -	InteracTIP Website6
FIGURE 4 -	InteracTIP 2020 Documentation Webpage7
FIGURE 5 -	InteracTIP 2020 TIP Project Listings Webpage8
FIGURE 6 -	InteracTIP - Interactive Project Tool9
FIGURE 7 -	2045 LRTP View of Interactive Project Tool10
FIGURE 8 -	Interactive Project Tool – Legends of Project Types10
FIGURE 9 -	LRTP Click-a-Project Pop-up11
FIGURE 10	- LRTP Project Information - Costs by Phase12
FIGURE 11	- Street View Image13
FIGURE 12	- Save as PDF Options14
FIGURE 13	- Project Information and Costs by Phase PDF Report15
FIGURE 14	- Project Search Tool16
FIGURE 15	- Search by Key Word17
FIGURE 16	- Search Results17
FIGURE 17	- New Search17
FIGURE 18	- Search by Route18
FIGURE 19	- Search by Address18
FIGURE 20	- Search by Type18
FIGURE 21	- Current LRTP Project Search20
FIGURE 22	- Tool Menu for Agency Users20
FIGURE 23	- Current LRTP - Add a New Amendment21
FIGURE 24	- Amendment Selection and Approval22
FIGURE 25	- Amendment Approval23

INTRODUCTION

The Miami-Dade Transportation Planning Organization (TPO) developed and uses the InteracTIP, a web-based application, to collect project information in the annual development and publication of the Miami-Dade Transportation Improvement Program (TIP). The TIP identifies proposed transportation improvements by phases to be funded with federal, state, and/or local funds in the coming five years. The TIP is developed in accordance with federal and state laws. Title 23 US Code §134 Metropolitan Transportation Planning states MPOs shall develop a TIP for the metropolitan planning area that:

- (i) Contains projects consistent with the current metropolitan transportation plan;
- (ii) Reflects the investment priorities established in the current transportation metropolitan transportation plan (the LRTP for Florida MPOs); and
- (iii) Once implemented, is designed to make progress toward achieving the performance targets established.

Florida Statute 339.175 – Metropolitan Planning Organization emphasizes the federal legislation for TIPs and requires TIPs to be updated annually.

Since the InteracTIP is used for the collection and development of the TIP documentation of project lists and funding to be used, it is also necessary for the correlation of TIP projects to LRTP projects. Beginning with the 2040 Long Range Transportation Plan (LRTP) update cycle for the Miami-Dade TPO and in coordination with the 2015 TIP development, LRTP projects were added to the InteracTIP structure to ensure the consistency among TIP and LRTP projects. For that LRTP cycle, the InteracTIP tool and website were enhanced by adding the functionality to aide in the coordination of TIP and LRTP projects due to federal requirements. The resulting InteracTIP website then has two general parts; a document server for the public display of the latest TIP documents and project lists, and a GIS-based Interactive Project Tool which servers both the TIP and LRTP project information in an interactive mapping environment. The interactive project tool application serves as a public mapping and query engine to aide in the visualization and location of planned projects within Miami-Dade County.

During the previous 2040 LRTP Cycle update, the InteracTIP interactive project application was also upgraded and overhauled due to technical support issues and changes by various software vendors to use the JavaScript API for Google Maps. This interactive map functionality provides a map of current year TIP projects and one for current LRTP projects. A toggle widget within the mapping application allows switching from one plan's map to the other. Each year for TIP projects or each LRTP cycle means an update to the latest project information and locational shapes for the effected plan within the InteracTIP. Additionally, during the technical overhaul of the tool the following functionality was also part of the general focus of the Interactive Project Tool upgrade:

- » Display of point and line project locations on a map
- » Project Search by varying attributes, such as name, type, and address
- » Display of a list of projects based on different attribute filters
- » Generation of Project Information Reports individually and using attribute filters
- » Point and click Project Preview Popup and Google Street View
- » Project Manager Contact information
- » Address Searches

This document focuses on the replacement of the 2040 LRTP project data with the 2045 LRTP project data and follows with a review of the InteracTIP website and tool functionality with respect to LRTP project Cycles.

2045 LRTP PROJECT INFORMATION UPDATE

The Miami-Dade TPO adopts an updated LRTP every 5 years as Federally required. The time of this document marks the completion of the first 5-year LRTP cycle since the InteracTIP was first restructured with the 2040 LRTP project information. LRTP project information in the InteracTIP needs to be updated upon the adoption of an updated LRTP. This event created the need to refresh the Interactive Project Tool with the updated 2045 LRTP projects. Each LRTP update in the InteracTIP reflects the adopted Cost Feasible Plan (CFP) as derived through the LRTP. A process was developed to remove the 2040 LRTP project data at the database level for the InteracTIP and replace it with the 2045 LRTP project data.

To update the LRTP projects for the InteracTIP, the shapefiles for adopted CFP projects are converted into database tables through ArcGIS and uploaded to the enterprise database for the InteracTIP while clearing out the previous (2040 LRTP) project shapes. This was done after ensuring proper identification for all project shapes in the shapefile, which were used for mapping, were properly coordinated with the 2045 LRTP project tables. The LRTP project shapes are stored in separate database tables for each project type to be accessed by the interactive project tool mapping environment. Projects in the LRTP can also be either linear or point-based locations on the map. Therefore, tables by shape type as well as by project type are needed to fully represent all locatable projects. For the 2045 LRTP update, the old 2040 shape locations were completely removed from their database tables, and the new 2045 shape locations were added to each of the appropriate shape tables.

The final LRTP CFP project information by phase and Priority funding were captured from the LRTP documents and prepared into a single Excel spreadsheet for conversion into the enterprise database of the InteracTIP. The LRTP information was reformatted to the database columns and then uploaded using SQL scripting also replacing the previous 2040 LRTP project information. These steps took various software to accomplish starting with Excel and ArcGIS, with scripting in SQL through Microsoft SQL Server 2014 Management Studio, and SQL Server 2014 as the enterprise database.

With the completion of the InteracTIP update that replaced the 2040 LRTP projects with the recently adopted 2045 LRTP projects, the InteracTIP is ready for use for the development of the new draft 2021 – 2025 TIP.

WEBSITE INTERFACE AND FUNCTION

The InteracTIP website and Interactive Project Tool can be reached through links found on the TIP section of the Miami-Dade's TPO government website: miamidadetpo.org. See **Figure 1** below.

FIGURE 1 - MIAMI-DADE TPO WEBSITE

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Told Vew Fearlies Took Help	W Mans-Deat IPO X	er mammusoe manuportation Plan 😸 Interact	ar - cog m 2020 Documentation	(m) save oneosali 1001	John 12 Documentation - Home	mammoede Sarsportation
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	НОМЕ	GOVERNANCE	INVOLVEMENT OPPORTUNITIES	S PROGRAMS	DOCUMENTS	TOOLS
	Last Visite	1.				
					Program P	riorities
Programs	Trans	sportation Impro	vement Program		> 2021-202	5 Program
Biovole Pedestrian Prog	ram .	sportation impro	vennennen rogram		Priorities	
only on a constraint roop			affilia.			
Connected-Autonomou	is Vehicle Program				* 2020-202	4 Program
Freight & Logistics Plan	ning Program		O ANNI SING MAN		Phonoes	N
Tragit of Cognition Fight					* 2019-202	3 Program
Long Range Transporta	tion Plan		Construction 111		Priorities	1
Performance Managem	The goals	of Miami-Dade County's transpo	rtation plans are to enhance the mobility	of the urban population, ach	ieve > 2018-202	2 Program
	a balance	d transportation system, meet en	ergy conservation needs, improve air qua	ality, as well as to preserve or	Priorities	-
and the second se	ives Program enhance t	he physical and social environme	nt of the community. The Transportation	Improvement Program (TIP)	15	
Transportation Alternat		ose plans managed by the Miami-	Dade TPU to achieve these goals.		* 2017-202	1 Program
Transportation Alternat	ment Program				44 - 7 7 - 1	
Transportation Improve Transportation Improve	ment Program What is th	ne TIP?			Priorities	2
Transportation Improve Unified Planning Work I	ment Program What is the TIP	ne TIP?			Priorities	2

Along the right-hand side of the page, a link to the InteracTIP website is available to the public, see **Figure 2** below.



FIGURE 2 - MIAMI-DADE TPO WEBSITE - INTERACTIP LINK

The InteracTIP website is also accessed using the browser URL, www.interactip.com. The InteracTIP website is hosted outside of the Miami-Dade TPO and the Miami-Dade government webservers. This allows for easier maintenance of the TIP documents being hosted as well as the mapping application of the interactive tool.

For a description of the functionality of the website and the Interactive Project Tool, general illustrations of the webpages for the site are provided in the following sections of the document which explain how to access and use the tools. This document provides a general sense of the functionality found on the website, its mapping functionality, and how the data is maintained for public users. A separate User's Guide for participating Agency users was developed in PowerPoint format for training purposes. The training was for the agencies' staff that provide the project updates and maintenance of the funding information at the time of the draft TIP document development. This document will only cover the general functionality for the public user and is not intended to replace the User's Guide made for the agency user training purposes.

INTERACTIP WEBSITE

The InteracTIP website, as shown in **Figure 3** below, was developed in WordPress HTML editing and website hosting software. The main webpage currently displays a *TPO Links* tab for certain links back to the main TPO website, a link to the interactive project tool, links to the current and 1-year previous TIP documents, and an introduction statement for the purpose and need of the TIP and LRTP documents.

FIGURE 3 - INTERACTIP WEBSITE



Introduction

Welcome to the website of the Transportation Improvement Program (TIP) for the Miami urbanized area. This is the plan for fiscal year 2019/2020 to 2023/2024 as adopted by the Transportation Planning Organization governing board. But, what is TIP? The TIP is a staged multi-year program that sets the priorities of transportation improvement projects with federal, state and local funding. The TIP is also the capital improvements element of the Long Range Transportation Plan. The TIP is updated every year as required by federal government regulations. This multimedia tool provides access to the plan as well as other related documents and useful websites. The 2018/2019 TIP is also available on this website as a reference. Thank you for your interest in the Transportation Improvement Program.

TRANSPORTATION IMPROVEMENT PROGRAM

Approved by the TPO Governing Board on June 20, 2019

TPO MISSION STATEMENT

To plan transportation facilities and services in Miami-Dade County that are integrated and efficient while providing effective community participation.

SEARCH BOX

SEARCH THIS WEBSITE ...

Q

Using one of the "Documentation" tabs for either TIP version, the public user can download a PDF of either the Citizen's version and/or the full version of the TIP document being referenced, as seen in **Figure 4**.

Also presented on these webpages, the public user can choose to access a specific part of the full version of the TIP document based on a set of links which parallel the Table of Contents for the full document versions. Each link takes the public user to the textual section of the TIP document of the specific item chosen. Bookmarks are also available within the downloaded PDF of the full TIP document for user reference.



There are *Project Listing* tabs for each TIP document which provide links by Agency to display the project listings of those sections of the full TIP document, as shown in **Figure 5.**

Image: State	actip.com ⁽ Foge, do 752 ShaweFile Login Marrii Dade TPO 2020 TP Project Listing Tesls : Map	s × 🍏 Mami Dode Temportation 🖉 InteracTIP - Log In 🔮 200	C Search Sourcementation Med Para Uninitial Tool Document Document
	TPO Links Interactive Project Tool 2020 Docum	TRANSPORTATION IMPROVEME Fiscal Years 2019/2020 to 2023/2 entation 2020 TIP Project Listings 2019	ENT PROGRAM 024 Documentation 2019 Project Listings
	2020 TIP Project 5-year project listings	Listings	
	State Transportation System and Major Projects	Aviation Department Airport Development	Non-Motorized Component
	Florida Turnpike Enterprise	PORT/MA/M. Multimodal Port Development (Seaport)	
	Secondary Roads MIAMEDADE COUNTY Road Impact Fee MIAMEDADE COUNTY Local Option Gas Tax	Multimodal Transit Improvement (MDTA) WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	Congestion Management Projects
	Local Option Gas Tax	Federally Funded Projects	Strategic Miami Area Rapid Transit (SMART) Plan

FIGURE 5 - INTERACTIP 2020 TIP PROJECT LISTINGS WEBPAGE

INTERACTIVE PROJECT TOOL AND PURPOSE

Using the *Interactive Project Tool* tab on the InteracTIP webpage, the public user is directed to the interactive project tool map interface as shown in **Figure 6.** A map of the Miami-Dade area is presented and set to display the current year TIP projects by default. The Interactive Project Tool is another way for the public to access pertinent project data of both the current TIP and LRTP through a visual GIS-based map application. A user can toggle between the current TIP projects and LRTP projects on an interactive map based on the Google API platform. The project location descriptions, costs, and funding information for the two plans are displayed on the interactive map as preloaded project shapes depending on the position of the green TIP/LRTP toggle widget at the top of the page.



FIGURE 6 - INTERACTIP - INTERACTIVE PROJECT TOOL

Figure 7 shows the interactive tool switched to the LRTP 2045 Plan.



FIGURE 7 - 2045 LRTP VIEW OF INTERACTIVE PROJECT TOOL

The TIP project locations are color-coded based on some general project type categories as chosen at development. The LRTP projects are treated in much the same way, color-coded by project type, but with some slight differences in the project types chosen for the TIP projects. Each map of the project tool has its own project legend. The map legend can be referenced using the *Legend* tab on the left side of the map window. **Figure 8** shows the two map legends side by side. (Note the green label of the toggle widget at the top of the window to correctly identify the plan being depicted on the map.)

Between the two plans, the public user can view project information in near-term or long-term timescales. The project information available at these two timescales is slightly different, with the near-term project information being more detailed and refined as to scope, limits, and funding sources.



FIGURE 8 - INTERACTIVE PROJECT TOOL – LEGENDS OF PROJECT TYPES

When a project shape is selected on the map window, a small pop-up box is presented containing the basic project information of its ID, type, description, and general location. Also, on the pop-up window are two button options given for the user to proceed in further review of the project information presented or the project location. **Figure 9** shows an example of the pop-up box presented when a public user clicks a project location to retrieve its information.

FIGURE 9 - LRTP CLICK-A-PROJECT POP-UP



The *Project Information* button of the pop-up box retrieves a report window of the project's information and its funding by phase and planning period for the current LRTP Plan, as shown in **Figure 10.** Other informational document attachments such as pictures and TIP/LRTP amendments that have been associated to a project will be presented at the bottom of the report under Project Attachments.

FIGURE 10 - I RTP	PROJECT INFORMATIO	N - COSTS BY PHASE
FIGURE IU-LKIP	PROJECT INFORMATIO	IN - COSIS DI PHASE

US 27 / SR 25 / Okeechobee Rd				×
Project Details				
LRTP Project Code		DT4232512		
Facility		US 27 / SR 25 / Okeechobee Rd		
Limit From		Broward County Line		
Limit To		W of HEFT		
Description		Add Lanes & Reconstruct		
LRTP Year		2045		
Project Type		Arterial/Collector		
Agency Name		FL Dept. of Transportation		
Purpose				
Last Approved Date				
Last Approved User Name				
Last Amended Date				
Last Amended User Name				
Priority Data				
	Priority 1 2020 - 2025 (Y-O-E \$)	Priority 2 2026 - 2030 (Y.O.F \$)	Priority 3 2031 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045 (Y-O-E \$)
Preliminary Engineering				
Preliminary Engineering Right of Way	\$4.74M			
Preliminary Engineering Right of Way Construction	\$4.74M \$49.415M			
Preliminary Engineering Right of Way Construction Operations and Maintenance	\$4.74M \$49.415M			
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital	\$4.74M \$49.415M			
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Cost	\$4.74M \$49.415M			
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Cost Project Cost Project Cost Funded	\$4.74M \$49.415M			
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Costs Project Costs Funded Total Capital Cost	\$4.74M \$49.415M			\$63.244M
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Cost Project Cost Project Costs Funded Total Capital Cost Project Attachments	\$4.74M \$49.415M			\$63.244M
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Cost Project Cost Project Costs Funded Total Capital Cost Project Attachments No attachments are found for this p	\$4.74M \$49.415M			\$63.244M

The other button of the pop-up box, *View in Street View*, will take the user to an interactive street view using the Google API based on the general location of the project selected. This allows the user to directly view the road configuration at the street level as captured by Google's street view vehicle collection video logs. **Figure 11** shows an example view of a street view. The user can return to the interactive map from the street view by selecting the left pointing arrow near the top of the street view image as circled.

FIGURE 11 - STREET VIEW IMAGE



The pop-up report window, as shown back in **Figure 10** and **Figure 12** below, also has two button options for the user. The first button is the same *View in Street View* button as the first pop-up box and functions just as described above for **Figure 11**. The second button, *Save as PDF*, allows the user to create a printable report of the project information that can also be saved. **Figure 12** below shows the Open/Save bar that is activated by the *Save as PDF* button, where the user has the option to view the information in a temporary .PDF window or save it to a .PDF file by a name of the user's choosing. The user can dismiss the report window clicking the red button with the white "X" in the upper right corner of the window.

FIGURE 12 - SAVE AS PDF OPTIONS

(=) (2) http://update.interac	tip.com/#/					Ψ. (C Search	
 Home - BST Overview File Edit View Favorites Tool x m Convert ▼ BSelect × G Share Browser Webex ▼) ShareFile Login 😡	Miami-Dade TPO	InteracTIP – Transportation I	🥭 Miami-Dade Transportati	× 💋 InteracTIP > Log In	G 2020 Documentation	🛓 Java Uninstall Tool	D 1DK -
Miami-Dade Interactive P	Transportation Pla roject Tool	n	TIP LRTP Showing					
US 27 / SR 25 / Okeeo	chobee Rd							
Agency Name			FLI	Dept. of Transportation				^
Purpose								· ·
Last Approved Date								
Last Approved User Name								
Last Amended Date								
Last Amended Oser Name								
Priority Data								- 1
		Priority 1 2020 - 2025 (Y-O	E\$) Pri	iority 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$)
Preliminary Engineering		Priority 1 2020 - 2025 (Y-O	E \$) Pri	iority 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$)
Preliminary Engineering Right of Way		Priority 1 2020 - 2025 (Y-O	E \$) Pri	iority 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$)
Preliminary Engineering Right of Way Construction		Priority 1 2020 - 2025 (Y-O \$4 \$49 -	E \$) Pri 74M 15M	iority 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$)
Preliminary Engineering Right of Way Construction Operations and Maintenance		Priority 1 2020 - 2025 (Y-O \$4 \$49.4	E \$) Pri 74M 15M	iority 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$)
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital		Priority 1 2020 - 2025 (Y-O \$4 \$49 /	74M	lority 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$)
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Cost		Priority 1 2020 - 2025 (Y-O \$4 \$4 \$49.4	E \$) Pri	lonity 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$)
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Costs Project Costs Funded		Priority 1 2020 - 2025 (Y-O \$4 \$40.4	E \$) Pri	lonity 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$)
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Costs Project Costs Funded Total Capita		Priority 1 2020 - 2025 (Y-O	E \$) Pri	lonity 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$) \$63.244M
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Costs Project Costs Project Costs Funded Project Maintenance	nts	Priority 1 2020 - 2025 (Y-O	E \$) Pri	lonity 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y-O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$) \$63.244M
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Costs Project Costs Project Costs Funded Project Lapita Project Lapita No attact frents a	nts re four or this pr	Priority 1 2020 - 2025 (Y-O 54 \$49.4	E \$) Pri	lonity 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$) 563.244M
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital Project Costs Project Costs Project Costs Funded Total Capita Project Lapita No atta Trents a View in Street View	nts re four or this pr Save as PDF	Priority 1 2020 - 2025 (Y-O \$4 \$49 -	E \$) Pri	lonity 2 2026 - 2030 (Y-O-E \$)	Priority 3 20	31 - 2035 (Y O-E \$)	Priority 4 2036 - 2045	(Y-O-E \$) \$63.244M

📜 test (1).pdf - Adobe Acrobat Standard DC

Figure 13 below depicts a sample of a project report in .PDF format. All project information is provided in the report, and includes total costs funded by the LRTP, and total capital cost of the project for construction. The project plan costs are further broken down by the Priority of the LRTP and phases. Any attached informational items, such as LRTP Amendments, are shown below the project funding, as applicable.

FIGURE 13 - PROIECT	INFORMATION	AND COSTS BY	PHASE PDF REPORT

Page 1 - 12/18/2019 11:57 AM					
Field Name	Field Value				
LRTP Project Code	DT4232512				
Facility	US 27 / SR 25 / Okeechobee Rd				
Limit From	Broward County Line				
Limit To	W of HEFT				
Description	Add Lanes & Reconstruct				
LRTP Year	2045				
Project Type	Arterial/Collector				
Agency Name	FL Dept. of Transportation				
Purpose					
Last Approved Date					
Last Approved User Name					
Last Amended Date					
Last Amended User Name					
Project Costs Funded	\$M				
Total Capital Cost	\$63.244M				

	P1 2020-2025(Y-O-E\$)	P2 2026-2030(Y-O-E\$)	P3 2031-2035(Y-O-E\$)	P4 2036-2045(Y-O-E\$)
Preliminary Engineering	\$M	\$M	\$M	\$M
Right of Way	\$4.74M	\$M	\$M	\$M
Construction	\$49.415M	\$M	\$M	\$M
Operations and Maintenance	\$M	\$M	\$M	\$M
Capital	\$M	\$M	\$M	\$M

Other functionality in the interactive project tool, allows the user to search for projects within the LRTP and TIP. The search toolboxes are located to the right of the map window, as shown in **Figure 14.** These can be accessed or hidden through the vertical *Search* tab, much like the *Legend* tab on the opposite side of the map. Clicking the triangle to the left of each search bar tool type allows the user to access the type of search desired.

FIGURE 14 - PROJECT SEARCH TOOL



By default, *Search All Data Points* search is activated, and all projects are searchable by using key words entered in the space provided and then clicking the *Search* button, as shown in **Figure 15**. Results of the search are then displayed by accessing the "Results" tab at the top of the search boxes, as seen in **Figure 16**. The projects in the results list generated can be selected to show the full project information pop-up report using the *Project Information* button or can be located on the map by using the *Show on Map* button. **Figure 17** shows how to reset the search results to start another search by selecting the *Search* tab again.



There are three other types of project search tools provided for the user based on project type, address, or route. These are shown in **Figure 20**, **Figure 19**, and **Figure 18**, respectively. The Search by Type lists the projects in the *Results* tab based on the project types of the map legend. Therefore, a list of all Bike/Ped or all Arterial/Collector projects could be generated. The Search Project by Address works differently. The user provides an address or intersection reference for the Google API to address match and allows the user to set a search radius in miles around the address reference to find all projects within the search radius. Lastly, the Search Projects by Route generates a project list based on a search radius around a Google API generated route between two map-based reference points. For example, a user may search for projects along a route in the US 1 corridor from Homestead to Downtown Miami within a certain search radius. This allows a user to review the timing of project development within the



The tools describe in this section are available to the general public for the dissemination of plan details on a project by project basis beyond the plan documentation.

TIP/LRTP PROJECT TRACKING/REPORTING

This section describes tools and processes that are available to a higher level of user other than the public user; either at the Agency level or Admin level who maintains and updates the plan data which is served to the public. The section is written with an emphasis on the LRTP side of the Interactive Project Tool. The Interactive Project Tool allows an Agency to enter project level data on TIP projects and relate those projects to the LRTP. Miami-Dade TPO and its partnering transportation agencies contribute to the TIP and LRTP process and designate a staff person to enter and update project information annually in the InteracTIP. The partnering agencies include the following: (with their ID and abbreviation used by the InteracTIP system)

- 01 DT, FL Department of Transportation
- 02 TA, Miami-Dade Department of Transportation and Public Works (DTPW) (Transit)
- **03** TR, South Florida Regional Transportation Authority (SFRTA)
- 04 XA, Miami-Dade Expressway Authority (MDX)
- **05** PW, Miami-Dade Department of Transportation and Public Works (DTPW)
- 06 TP, Florida's Turnpike
- 07 PS, Private Sector
- 08 AP, Miami-Dade Aviation Department
- 09 HI, Hialeah
- 10 MB, City of Miami Beach
- 11 MU, Municipalities
- 12 SP, Miami-Dade Seaport Department
- **13** SW, Sweetwater
- 14 CM, City of Miami
- 15 HS, Homestead
- 16 MD, City of Medley
- 17 UM, University of Miami
- 18 NA, Agency not Available
- 19 RE, Rail Enterprise

The designated staff of the agencies are given a login username and password to the Interactive Project Tool and assigned a layer of security access within the tool. This is mainly for restricting / granting access to the agency user to provide data entry and changes to the TIP projects that are in their purview for the draft TIP, as well as entering amendments to projects in the current TIP and LRTP plans. This means that the project tool is used for maintaining three separate plans of projects; the current LRTP, the current TIP, and the next year's draft TIP. **Figure 22** displays all possible tool choices. Based on the user's security access, only certain tools are presented for use. A portion of these tools are only for the Admin level user. These tools help with the maintenance of the web tool.

Current LRTP projects and plan information are loaded into various tables used by the project tool and are needed for linking to TIP projects. This helps maintain a direct relationship of the TIP project to an LRTP project in order to track that the TIP project is properly added to the plan and accounted for in the current LRTP or that it was / or needs to be amended into the LRTP for this accountability.

The interactive project tool is designed to help track LRTP changes through an amendment process. The amendment process allows for changes to the LRTP and TIP projects that are presented and approved through the TPO Governing Board. This helps the accounting process of either plan's projects to FHWA to ensure the TPO is meeting their Federal requirements. The amendment process is evoked through the *Current xxxx TIP* or the *Current xxxx LRTP* menu item, where xxxx is the year of the plan, as shown in **Figure 22** above. When the amendment project that needs an update / amendment, or select *Add a new Project* as the amendment requires.

FIGURE 22 - TOOL MENU FOR AGENCY USERS



FIGURE 21 - CURRENT LRTP PROJECT SEARCH

The user would then make the update to the project after the *View Project* or *Add new Project* button pops up the "Current LRTP- Add a New Amendment" entry form, as shown in **Figure 23**. The user would then use the *Add* button to create the new amendment for approval after making the changes. The Add button only becomes enabled when a change is entered in the project information.

Miami-Dade Transportation Plan	Showing 2015 LRTP Projects 34 reference de la projecta	Welcome Hoyt Agency : FL Dept. of Transportation Menu -
	rrossoso 	Jump to Ser Son Project Details Project Cert Priority Data Add
Project Cost.	2020-2025 (Y-Q-E \$)	v
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital		

FIGURE 23 - CURRENT LRTP - ADD A NEW AMENDMENT

The administrator is responsible for reviewing and approving the final amendment in the tool using the *View Proposed Amendments LRTP* menu item. The administrator would search / review /approve each amendment as necessary using the select pulldown to choose a project's amendment, as shown in Error! Reference source not found..

Miami-Dade Transportation Plan Interactive Project Tool MAP - View Proposed Amendr User Management Register a New User Please select an amended project: Select Role Management Configuration Management Activity Logs Current 2020 TIP CONTACT US | ABOUT US Current 2020 TIP Reports Current 2045 LRTP Draft 2021 TIP Draft 2021 TIP Reports View Proposed Amendments TIP View Proposed Amendments LRTP Upload FDOT CSV File Upload Image Files Completed Amendments TIP Completed Amendments LRTP Logout

FIGURE 24 - AMENDMENT SELECTION AND APPROVAL

Figure 25 shows an example amendment waiting for final approval or decline. The administrator can comment on the final choice in the space provided and use the *Submit* button to complete.

FIGURE 25 - AMENDMENT APPROVAL

Miami-Dade Transportation Plan Interactive Project Tool		2045 LRTP Projects an as de lefter togre de map.			Welcome Hoyt Agency : FL Dept. of Transportation Menu +
This is a new project amendment Amendment Created By : Hoyt Davis					
Amendment Creation Date : 12/19/2019 3:03 PM					
LRTP - View Proposed Amendments					
Please select an amended	project: DT999999		•	Recreate Amendment for this project	
Project Information Section					
Information Real	м.		× .		× 11
Information Type	Ť	Original Value	* A	mended Value	Ť
LRTP Project Code			D		
Facility			1	est	
Limit From			le te		
Limit 10			le	əl 	
Droject Type			ne A	rterial/Collector	
Agency Name			A	L Dept. of Transportation	
IRTP Year			F	s sope of franciportanon	
LICIP Teal			2	545	
Amended Funding Information Amended Funding Information	onity 1 2020-2025 (Y-O-E \$)	 Priority 2 2026-2030 (Y-O-E \$) 	 Priority 3 2031-2035 	(Y-O-E \$) ^v Priority 4 2	034-2045 (Y-O-E \$) Ý
Category Y Pr	iority 1 2020-2025 (Y-O-E \$)	Priority 2 2026-2030 (Y-O-E \$)	Y Priority 3 2031-2035	(Y-O-E \$)	036-2045 (Y-O-E \$) ~
Preliminary Engineering Right of Way Construction Operations and Maintenance Capital					
* - All funding information is in thousands. Legend: New Phase add	ed Modified Phase	- Deleted Phase - No Changes			
Approve Changes					
Re	solution	O Decline O Approve			



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