

MEMORANDUM

Agenda Item No. 5(B)

TO: Honorable Chairman Oliver G. Gilbert, III
and Members, Board of County Commissioners

DATE: November 20, 2024

FROM: Geri Bonzon-Keenan
County Attorney

SUBJECT: Resolution approving an amendment to the FY 2024-28 Five-Year Implementation Plan update of the People's Transportation Plan (PTP) to include the Fare Collection System Replacement project funded in part by Charter County Transportation Surtax Funds

The accompanying resolution was prepared by the Citizens' Independent Transportation Trust and placed on the agenda at the request of Prime Sponsor Commissioner Eileen Higgins.


Geri Bonzon-Keenan
County Attorney

GBK/gh

MDC001

Date: November 20, 2024

To: Honorable Chairman Oliver G. Gilbert, III
and Members, Board of County Commissioners

From: Daniella Levine Cava 
Mayor

Subject: Recommendation for Approval of the Citizens' Independent Transportation Trust Resolution Recommending an Amendment to the FY 2024-28 Five-Year Implementation Plan Update of the People's Transportation Plan to Add the Fare Collection System Replacement Project Funded in Part by Charter County Transportation Surtax Funds

Executive Summary

The attached item is being placed on the agenda of the Board of County Commissioners (BCC) at the request of Javier Betancourt, Executive Director of the Citizens' Independent Transportation Trust (CITT), for approval.

The Five-Year Implementation Plan was established pursuant to the ordinance governing the activities of the CITT (Ordinance 02-116), as amended by the BCC on September 21, 2010. The procedure to amend the Five-Year Implementation Plan includes that such proposals shall be initially reviewed by the CITT, which shall forward a recommendation to the Board. The CITT recommends the amendment of the Five-Year Implementation Plan to include the Fare Collection System Replacement project. The estimated capital project cost is \$109,320,000, with \$79,320,000 being funded by Charter County Transportation Surtax Funds, and \$30,000,000 via federal funding sources.

The Project contains two components:

- 1) Fare Collection Equipment inclusive of fare gates, ticket vending machines, and fareboxes as well as automated internal equipment monitoring technology, and farebox backend system to provide new equipment for the South Dade Transitway Bus Rapid Transit (BRT) implementation and replacement of exiting end of useful life equipment on Metrobuses and at Metrorail stations.
- 2) A Fare Collection Application to replace the existing antiquated software backend system with modern software to address both security and performance limitations.

Replacing the Fare Collection Equipment will provide the following benefits to the County: (a) improved customer experience; (b) improved reliability; (c) a new, secure technology; (d) an equipment monitoring system to notify DTPW of equipment malfunctions to expedite repairs; (e) integration with DTPW's current and future fare collection application; and (f) modern and consistent aesthetics for transit stations, including those within the South Dade TransitWay.

Recommendation

It is recommended that the Board of County Commissioners (Board) approve the resolution by the Citizens' Independent Transportation Trust (CITT) recommending an amendment to the FY 2024-28 Five-Year Implementation Plan Update of the People's Transportation Plan (PTP) to add the Fare Collection System Replacement project.

This agenda item is placed for Committee review pursuant to Miami-Dade County Code Section 29-124(f). The item may only be approved by the Board if CITT has forwarded a recommendation prior to the date scheduled for Board consideration or 45 days have elapsed since the filing of the item with the Clerk of the Board. If CITT has not forwarded a recommendation and 45 days have not elapsed since the filing of this recommendation, I will request a withdrawal of the item.

Scope

The scope of this item is countywide in nature.

Delegation of Authority

Pursuant to Section 2-8.3 of the County Code, there are no delegations of authority beyond those specified in the attached resolution

Fiscal Impact/Funding Source

The estimated total capital project cost is \$109,320,000, of which \$79,320,000 being funded by Charter County Transportation Surtax Funds, and \$30,000,000 is federal funding sources. The project is included in the County's Adopted Budget and Multi-Year Capital Plan under Program No. 2000004398 and project No. 3009709.

Track Record/Monitor

The project will be monitored by Carlos Cruz Casas, PE, DTPW Assistant Director, Innovation & Mobility Services.

Background

DTPW's existing fare collection system is provided by Cubic Transportation Systems and is inclusive of equipment and fare collection backend software. This system was implemented in 2008 under *Contract No. RFP8481-2/22* for the provision of hardware and software and subsequently upgraded in 2016 under *Contract No. L8481-0/27* to migrate system software to the cloud. DTPW in-house staff maintains and repairs the existing equipment, including management of spare parts inventory. DTPW's fleet of approximately 850 buses is equipped with Genfare Odyssey Fareboxes that interface with Cubic Driver Control Units. These units have been in service since January 2009.

Due to the age of the system, the equipment is experiencing frequent failures and requires repair, thus taking station lanes or buses out of operation, directly impacting service delivery to patrons. Additionally, failures that occur during active bus routes may require operators to wave passengers through without payment, resulting in impacts to revenue collection and malfunctioning gates contribute to fare evasion. DTPW's existing inventory of parts is expected to allow the current equipment to be serviced while the new equipment is installed. However, obtaining additional parts for the outdated equipment beyond the installation period will be problematic as much of the system has reached the end of its useful life and parts are no longer being manufactured.

Further, the software system was last upgraded in 2016, and replacement is needed to remedy technology limitations that prevent enhancements to the user experience, address Payment Card Industry (PCI) compliance, allow regional interoperability with neighboring transit systems, and deliver a more secure platform with multiple, flexible payment options for patrons, and maintain existing or implement future DTPW fare programs and policies.

Accordingly, this project is critical for maintaining and enhancing transit operations, consistent with the goals of the People's Transportation Plan.



Jimmy Morales
Chief Operating Officer



MEMORANDUM
(Revised)

TO: Honorable Chairman Oliver G. Gilbert, III
and Members, Board of County Commissioners

DATE: November 20, 2024

FROM: 
Gen Bonzon-Keenan
County Attorney

SUBJECT: Agenda Item No. 5(B)

Please note any items checked.

- “3-Day Rule” for committees applicable if raised**
- 6 weeks required between first reading and public hearing**
- 4 weeks notification to municipal officials required prior to public hearing**
- Decreases revenues or increases expenditures without balancing budget**
- Budget required**
- Statement of fiscal impact required**
- Statement of social equity required**
- Ordinance creating a new board requires detailed County Mayor’s report for public hearing**
- No committee review**
- Applicable legislation requires more than a majority vote (i.e., 2/3’s present ____, 2/3 membership ____, 3/5’s ____, unanimous ____, majority plus one ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3) (h) or (4)(c) ____, CDMP 9 vote requirement per 2-116.1(4)(c) (2) ____) to approve**
- Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 5(B)
11-20-24

RESOLUTION NO. _____

RESOLUTION APPROVING AN AMENDMENT TO THE FY 2024-28 FIVE-YEAR IMPLEMENTATION PLAN UPDATE OF THE PEOPLE’S TRANSPORTATION PLAN (PTP) TO INCLUDE THE FARE COLLECTION SYSTEM REPLACEMENT PROJECT FUNDED IN PART BY CHARTER COUNTY TRANSPORTATION SURTAX FUNDS

WHEREAS, the Citizens’ Independent Transportation Trust (“Trust”), pursuant to section 29-124 of the Code of Miami-Dade County, recommends an amendment to the Five-Year Implementation Plan of the People’s Transportation Plan (PTP) to add the Fare Collection System Replacement project; and

WHEREAS, a public hearing was held; and

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board hereby approves the attached amendment to the FY 2024-28 Five-Year Implementation Plan update of the People’s Transportation Plan (PTP) to add the Fare Collection System Replacement project funded in part by Charter County Transportation Surtax Funds in substantially the form attached hereto and made part hereof.

The foregoing resolution was offered by Commissioner ,
who moved its adoption. The motion was seconded by Commissioner
and upon being put to a vote, the vote was as follows:

Oliver G. Gilbert, III, Chairman	
Anthony Rodríguez, Vice Chairman	
Marleine Bastien	Juan Carlos Bermudez
Kevin Marino Cabrera	Sen. René García
Roberto J. Gonzalez	Keon Hardemon
Danielle Cohen Higgins	Eileen Higgins
Kionne L. McGhee	Raquel A. Regalado
Micky Steinberg	

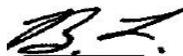
The Chairperson thereupon declared this resolution duly passed and adopted this 20th day of November, 2024. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

JUAN FERNANDEZ-BARQUIN, CLERK

By: _____
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.



Bruce Libhaber



Notice of Public Hearing

Notice is hereby given that a **public hearing** will be held by the Miami-Dade County Board of County Commissioners in the Commission Chambers, second floor, 111 NW First Street, Miami, Florida, during a meeting to begin at approximately **9:30 A.M. on November 20th, 2024**, to consider an amendment to the FY 2024-28 Five Year Implementation Plan Update of the People's Transportation Plan (PTP).

The Citizens' Independent Transportation Trust (CITT) is recommending an amendment to the FY 2024-28 Five Year Implementation Plan Update of the Peoples Transportation Plan to include the Fare Collection System Replacement project, funded in part by Charter County Transportation Surtax Funds.

Department of Transportation and Public Works' (DTPW's) existing fare collection system has reached its useful life and is experiencing frequent failures impacting service delivery to transit patrons. Fare Collection System Replacement project includes replacement of fare collection equipment and fare collection application (backend software system). This project is critical for maintaining and enhancing transit operations, improving customer service and reliability.

At the hearing, the Board of County Commissioners will afford an opportunity for interested persons or agencies to be heard with respect to the social, economic, and environmental aspects of this project. Interested persons may submit orally, or in writing, evidence and recommendations with respect to said project.

A person who decides to appeal any decision made by any board, agency, or commission with respect to any such matter considered at its meeting or hearing will need a record of all proceedings. Such person may need to ensure that a verbatim record of the proceedings is made, including testimony and evidence upon which the appeal is based.

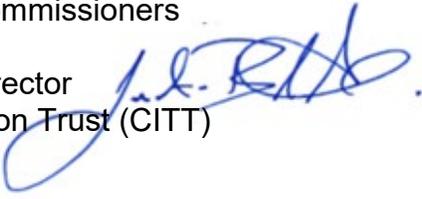
Miami-Dade County provides equal access and equal opportunity in employment and does not discriminate on the basis of disability in its programs or services. Auxiliary aids and services for communication are available with advance notice. For material in alternate format, a sign-language interpreter, or other accommodations, please contact Nya Lake at (305) 375-1357.

All interested parties are invited to attend. For copies of the PTP Plan and/or for further information, please contact the Office of the Citizens' Independent Transportation Trust, Stephen P. Clark Center, 111 NW First Street, Miami, Florida 33128, phone: 305-375-1357; e-mail: citt@miamidade.gov; website: www.miamidade.gov/citt. It is the policy of Miami-Dade County to comply with all requirements of the Americans with Disabilities Act.



Memorandum

To: Honorable Chairman Oliver G. Gilbert III
and Members, Board of County Commissioners

From: Javier A. Betancourt, Executive Director
Citizens' Independent Transportation Trust (CITT) 

Date: October 30, 2024

Re: Amendment to the FY2024-28 five-year implementation plan update of the People's Transportation Plan (PTP) to include the Fare Collection System Replacement Project.

The purpose of this memorandum is to present an amendment to the FY2024-28 Five-Year Implementation Plan update of the People's Transportation Plan (PTP) to add Fare Collection System Replacement project which will be funded in part by the Charter County Transportation System Surtax funds.

In accordance with Ordinance 02-116, it is necessary to amend the Five-Year Implementation Plan of the People's Transportation Plan (PTP) to include the Fare Collection System Replacement project before the project can be eligible for Charter County Transportation Surtax funding. If approved, this project will be included in the twelfth annual update of the five-year implementation plan.

The Department of Transportation and Public Works' (DTPW) existing fare collection system is provided by Cubic Transportation Systems which was implemented in 2008 under Contract No. RFP8481-2/22 for the provision of hardware and software. Subsequent upgrade to migrate system software to the cloud was implemented in 2016 under Contract No. L8481-0/27. DTPW's fleet of approximately 850 buses is equipped with fareboxes that interface with the fare collection software. These units have been in service since January 2009. DTPW in-house staff maintains and repairs the existing equipment, including management of spare parts inventory.

Due to the age of the system, the equipment is experiencing frequent failures and requires repair, thus taking station lanes or buses out of operation. This directly impacts service delivery to patrons. Additionally, malfunctioning gates impacts revenue collection and contributes to fare evasion. For example, failures that occur during active bus routes may

require operators to wave through passengers without payment. DTPW's existing inventory of parts is expected to allow the current equipment to be serviced while the new equipment is installed. However, obtaining additional parts for the outdated equipment beyond the installation period will be problematic, as much of the system has reached the end of its useful life and parts are no longer being manufactured

Further, the software system was last upgraded in 2016, and replacement is needed to remedy technology limitations that prevent enhancements to the user experience, address Payment Card Industry (PCI) compliance, allow regional interoperability with neighboring transit systems, and deliver a more secure platform with multiple, flexible payment options for patrons, and maintain existing or future DTPW fare programs and policies.

Accordingly, the Fare Collection System Replacement project is critical for maintaining and enhancing transit operations. The estimated capital cost of the project is \$109,320,000, with \$79,320,000 being funded by Charter County Transportation Surtax Funds, and \$30,000,000 via federal funding sources.

Your approval and adoption is recommended. The project detail form with project information is herein incorporated by reference and attached. If you have any questions, or need additional information, please do not hesitate to contact me.

Attachment

- c: Jimmy Morales, COO, Office of the Mayor
Eulois Cleckley, Director and CEO, Department of Transportation and Public Works
Bruce Libhaber, Assistant County Attorney

ATTACHMENT

Fare Collection System Replacement	
Department	Transit
PTP Category	Amendment
Project Category	Bus and Rapid Transit Improvements
Project Phase	Procurement/Contract Award
Project Begin Date	7/1/2024
Phase Begin Date	7/1/2024
Project Implementation Date	September 2027
Phase End Date	7/31/2026
Project Completion Percentage	0%
Phase Completion Percentage	0%
Amount by Funding Source(s)	FTA-\$30,000,000 PTP- \$79,320,000 Total-\$109,320,000
Project/Contract No.	EVN00001090/TBD
Amount Spent as of 9/30/2023	0
Commission District(s)	Countywide
Capital Budget Project #	2000004398
Site #	3009709

Project Description:

Replacement of fare collection equipment and software for all the metrobus and train operations across the County transit system is necessary to obtain current technology. The County’s existing fare collection system has equipment dating back to 2009 and a backend software that was last updated in 2016. Concerns with availability of parts to maintain and operate the existing equipment, ongoing technology limitations and payment card industry compliance challenges necessitate the replacement of the fare collection system. Due to the mission critical nature of this system, procurement activities are being conducted on an accelerated timeline. DTPW has divided the fare collection system replacement implementation into two solicitations: 1) Systemwide fare collection equipment and 2) Systemwide fare collection software application, that will achieve the integrated fare collection system.

Project Status:

Project not yet started. Contract award and Notice to Proceed for equipment to be installed in the South Corridor is expected in November 2024. Notice to Proceed for replacement of the bus fleet fareboxes and existing fare collection equipment at Metrorail Stations is expected in FY 2025, with completion if FY 2026. The new equipment will be integrated with the existing software system to allow the transition of the existing EASY card fare media when the implementation of the new software is completed. Contract Award for the fare collection application (i.e. the backend software) is expected in late FY 2025, with implementation in FY 2026-27.

Fiscal Impact:

Fiscal Year	PTP Cost Estimate	Cost Increase (Decrease)	Actual PTP Expenditures	Estimated Remaining PTP Balance	Completion Date
FY 2023	\$79,320,000	-	\$0	\$79,320,000	September 2027

RESOLUTION NO. 24-023

RESOLUTION BY THE CITIZENS' INDEPENDENT TRANSPORTATION TRUST (CITT) RECOMMENDING TO THE BOARD OF COUNTY COMMISSIONERS (BCC), AN AMENDMENT TO THE FY2024-28 UPDATE OF THE FIVE-YEAR IMPLEMENTATION PLAN OF THE PEOPLE'S TRANSPORTATION PLAN (PTP) TO INCLUDE THE FARE COLLECTION SYSTEM REPLACEMENT PROJECT FUNDED IN PART BY CHARTER COUNTY TRANSPORTATION SURTAX FUNDS

WHEREAS, it is necessary to amend the Five-Year Implementation Plan of the People's Transportation Plan (PTP) to include the Fare Collection System Replacement Project before the project can be eligible for Charter County Transportation Surtax funding; and

WHEREAS, the Department of Transportation and Public Works' (DTPW) existing fare collection system provided by Cubic Transportation Systems was implemented in 2008 under Contract No. RFP8481-2/22 for the provision of hardware equipment, backend software to migrate system software to the cloud was upgraded in 2016 under Contract No. L8481-0/27 and DTPW's fleet is equipped with Genfare Odyssey Fareboxes that interface with Cubic Driver Control Units have been in service since January 2009.; and,

WHEREAS, due to the age of the system, the equipment is experiencing frequent failures and requires repair, thus taking station lanes or buses out of operation directly impacting service delivery to patrons, and malfunctioning of gates contribute to fare evasion impacting revenue collection; and

WHEREAS, fare collection system replacement is needed as replacement parts for the outdated equipment are no longer being manufactured and to remedy technology limitations that prevent enhancements to the user experience, address Payment Card Industry (PCI) compliance, allow regional interoperability with neighboring transit systems, and deliver a more secure platform with multiple, flexible payment options for patrons, and maintain existing or implement future DTPW fare programs and policies; and

WHEREAS, the proposed project is critical for maintaining and enhancing transit operations to extend and enhance transit service; and

WHEREAS, DTPW desires to use Charter County Transportation Surtax funding in the amount of \$79,320,000 and \$30,000,000 in federal funds,

NOW, THEREFORE, BE IT RESOLVED BY THE CITT, that this Trust recommends approval of an amendment to the Fiscal Years 2024-28 update of the Five-Year Implementation Plan to include Fare Collection System Replacement project funded in part by Charter County Transportation Surtax Funds.

The foregoing resolution was offered by Paul J. Schwiep, Esq., who moved its adoption. The motion was seconded by Miguel Murphy and upon being put to vote, the vote was as follows:

Robert Wolfarth, Chairperson – Aye
Mary Street, Esq., 1st Vice Chairperson – Absent
Hon. Peggy Bell, 2nd Vice Chairperson – Absent

Omar K. Bradford, Esq. – Absent
Qjuezari Harvey – Aye
Kenneth Kilpatrick – Aye
Miguel Murphy – Aye
Paul J. Schwiep, Esq. – Aye

Meg Daly – Aye
Harry Hoffman – Aye
David Marin – Aye
Robert Ruano – Absent

The Chairperson thereupon declared the resolution duly passed and adopted this 30th day of October, 2024.

Approved by the County Attorney as to form and legal sufficiency 

By: 
Executive Director