

## TPO RESOLUTION #61-17

**RESOLUTION ALLOCATING CONGESTION MITIGATION AND AIR QUALITY (CMAQ) FUNDS IN FISCAL YEARS 2018 AND 2019, IN AN AMOUNT NOT TO EXCEED \$800,000.00, TO IMPLEMENT THE FIRST AND LAST MILE ON-DEMAND TRANSIT SOLUTIONS DEMONSTRATION PROJECT**

**WHEREAS**, the Interlocal Agreement creating and establishing the Transportation Planning Organization (TPO) for the Miami Urbanized Area requires that the TPO provide a structure to evaluate the adequacy of the transportation planning and programming process; and

**WHEREAS**, the TPO adopted Resolution #06-16 establishing transit as the “highest priority” for Miami-Dade County; and

**WHEREAS**, under Resolution #26-16, the TPO Governing Board endorsed the Strategic Miami Area Rapid Transit (SMART) Plan, which includes six (6) rapid transit corridors; and

**WHEREAS**, the development of the six rapid transit corridors will likely need the infusion of various funding sources, including federal, state, County, and municipal participation; and

**WHEREAS**, on June 22, 2017, under TPO Resolution #27-17, the TPO Governing Board established as TPO Priorities: delivery of projects including Complete Streets, First/Last mile, CAV and other priority projects that enhance connectivity, accessibility, and integration of the entire transportation network; and

**WHEREAS**, the Congestion Mitigation and Air Quality (CMAQ) program funding is available to reduce congestion and improve air quality with considerable emphasis on select project types including to support startup of new transit services, such as new shuttle services linking major activity centers; and

**WHEREAS**, the Miami-Dade Department of Transportation and Public Works (DTPW) will implement a demonstration project using a new technology to support First and Last Mile transit services connecting major activity centers; and

**WHEREAS**, the provision of these services will help to improve air quality, alleviate traffic congestion and improve the accessibility and connectivity of the rapid transit services along SMART corridors; and

**WHEREAS**, the First and Last Mile On-Demand Transit Solutions Demonstration project meets the guidelines and eligible criteria under the CMAQ program,

**NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE METROPOLITAN PLANNING ORGANIZATION FOR THE MIAMI URBANIZED AREA**, that this Governing Board allocate Congestion Mitigation and Air Quality (CMAQ) funds in FY 2018 and FY 2019, in an amount not to exceed \$800,000.00, to implement the First and Last Mile On-Demand Transit Solutions Demonstration Project.

The adoption of the foregoing resolution was moved by Board Member Jose “Pepe” Diaz. The motion was seconded by Board Member Dennis C. Moss, and upon being put to a vote, the vote was as follows:

**Chairman** Esteban L. Bovo, Jr.-Aye  
**Vice Chairman** Francis Suarez-Absent

Board Member Bruno A. Barreiro	-Absent	Board Member Vince Lago	-Absent
Board Member Juan Carlos Bermudez	-Absent	Board Member Daniella Levine Cava	-Aye
Board Member Jose “Pepe” Diaz	-Aye	Board Member Roberto Martell	-Aye
Board Member Audrey M. Edmonson	-Absent	Board Member Joe A. Martinez	-Absent
Board Member Oliver G. Gilbert, III	-Absent	Board Member Jean Monestime	-Absent
Board Member Perla Tabares Hantman	-Aye	Board Member Dennis C. Moss	-Aye
Board Member Carlos Hernandez	-Aye	Board Member Jeff Porter	-Absent
Board Member Sally A. Heyman	-Absent	Board Member Rebeca Sosa	-Aye
Board Member Barbara J. Jordan	-Aye	Board Member Javier D. Souto	-Aye
Board Member Smith Joseph	-Aye	Board Member Xavier L. Suarez	-Aye

The Chairperson thereupon declared the resolution duly passed and approved this 7<sup>th</sup> day of December, 2017.

**TRANSPORTATION PLANNING ORGANIZATION**

By Zainab Salim  
Zainab Salim, Clerk  
Miami-Dade TPO



# First/Last Mile On-Demand Transit Solutions

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## EXECUTIVE SUMMARY

The Department of Transportation and Public Works (DTPW) is seeking to implement a series of First/Last Mile On-Demand Transit Demonstration Projects to improve access to premium transit services in Miami-Dade County. On-Demand mobility solutions provide greater flexibility to access premium transit services and provide an indication about what riders are looking in their transportation network; a fast, reliable mobility that meets their personal needs. With this in mind, public transportation needs to evolve and introduce on-demand, app-based, transit solutions to provide better access to mass transit.

The on-demand transit will provide near door-to-door rides to and from premium transit services, such as Metrorail stations, TransitWay hubs, and major bus terminals among others. The mobility solutions to be implemented will include real-time ride matching and dynamically routed service, meaning that the route to destination changes based on the locations of who has booked a ride during a given time window, allowing for a certain number of deviations (2– 4 deviations per one-way trip) to minimize impact to travel time or maximum wait time. This will allow for faster trips for riders. The program will operate smaller, wheelchair-accessible, vehicles with capacity to transport 4 – 12 passengers.

Similar to Transportation Network Entities, Uberpool and Lyft Line, riders will be able to request a ride within a defined service area in real-time via their mobile devices, web or phone call. Algorithm within an Application (app) will match the rider with a close-by route already being served by a service vehicle and going in the rider's direction.

This is a demonstration program, and the services provided within it will be operational for a minimum of 6 months and a maximum of 36 months, with an option for DTPW to expand the program to other areas in Miami-Dade. Over the course of the demonstration, the pilot will be evaluated for quality, the ability to meet the needs of DTPW and the customer, and the ability to be sustainable in the future. The program will be designed to allow for service adjustments and extensions through the course of the demonstration as needed and recommended by monthly service performance evaluations.

The demonstration program will promote multimodal transportation options in the community. Public outreach and advertising will be an essential part of the service implementation plan.

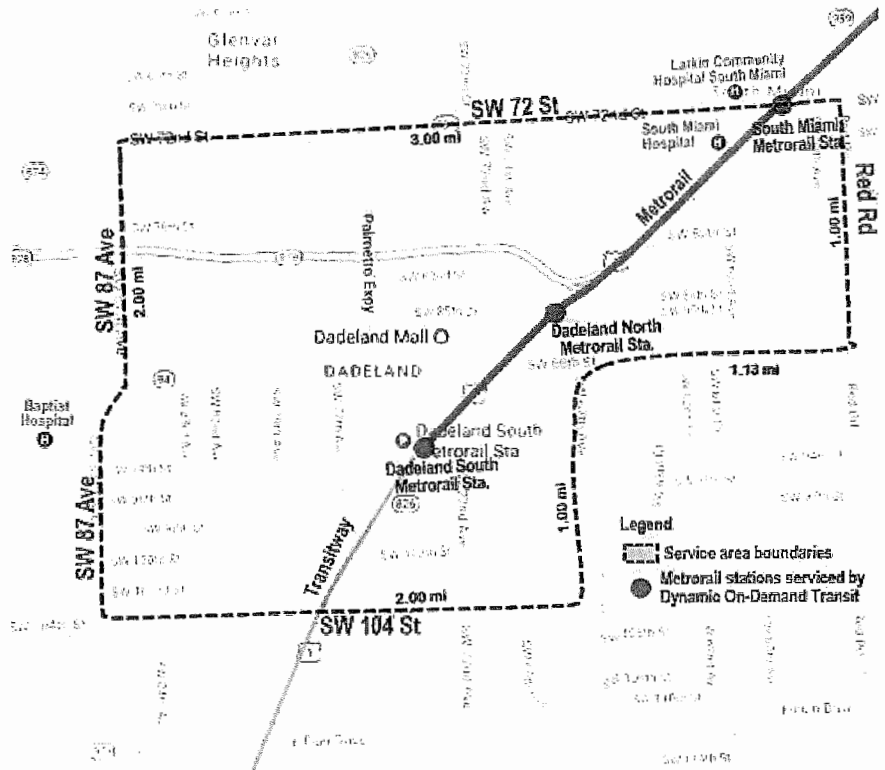
**Example of Service Areas:** The following two areas have been identified as ideal examples to implement first/last mile demonstration projects:

- **Dadeland area:** Metrorail stations within the service zone are Dadeland South, Dadeland North and South Miami. The proposed service zone for Dadeland area is shown in figure 1.
- **Earlington Heights area:** Metrorail stations within the service zone are Earlington Heights, Allapattah, Brownsville and Santa Clara Metrorail stations. The proposed service zone for Earlington Heights area is shown in figure 2.

**Initial Hours of Operation:** The dynamic routed, on-demand transit will operate within 1.5-mile radius from stations to allow for faster passenger trips and short wait times. To maintain a pickup time of 10 minutes (from time of request), the program will initially operate 3 vehicles during peak-hours, and 2 vehicles during off-peak hours within each service zone. Service will be provided from 6:30 am to 7:00 pm on weekdays only.

# ON-DEMAND TRANSIT SERVICE IN DADELAND AREA

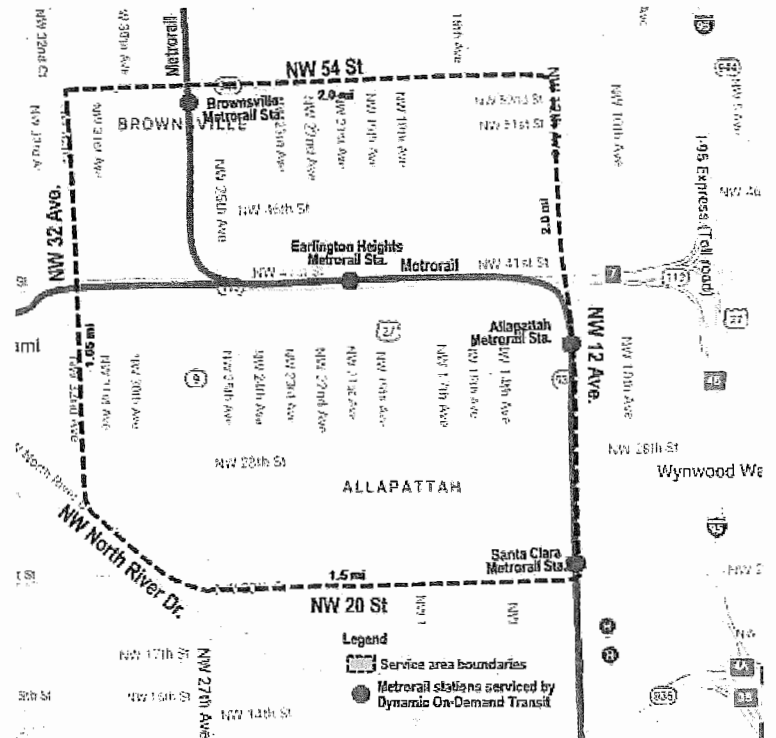
- New dynamic routed service based on real-time demand.
- Near door-to-door rides from and to Metrorail stations within Dadeland service area boundaries:
  - Dadeland South
  - Dadeland North
  - South Miami
- Service area boundaries:
  - North: SW 72 St
  - East: Red Rd
  - South: SW 104 St
  - West: SW 87 Ave
- Service will operate from 6:30 a.m. until 7:00 p.m.
- Expected waiting time of 10 minutes from time the ride is requested.
- Rides can be requested via smartphones, web or phone call.



**Figure 1:** Proposed Dadeland service zone map– The demonstration program will provide near door-to-door rides to and from Dadeland North, Dadeland South and South Miami Metrorail stations within the service area boundaries.

# ON-DEMAND TRANSIT SERVICE IN EARLINGTON HEIGHTS HEIGHTS AREA

- New dynamic routed service based on real-time demand.
- Near door-to-door rides from and to Metrorail stations within service area boundaries:
  - Earlington Heights
  - Allapattah
  - Brownsville
  - Santa Clara
- Service area boundaries:
  - North: NW 54 St
  - East: NW 12 Ave
  - South: NW 20 St and NW North River Dr
  - West: NW 32 Ave
- Service will operate from 6:30 a.m. until 7:00 p.m.
- Expected waiting time of 10 minutes from time the ride is requested.
- Rides can be requested via smartphones, web or phone call.



**Figure 2:** Proposed Earlington Heights service zone map – The demonstration program will provide near door-to-door rides to and from Earlington Heights, Allapattah, Brownsville and Santa Clara Metrorail stations within the service area boundaries.