



Miami-Dade Transportation
Planning Organization

SFRPC Clean Cities Coalition Transportation Resilience

Miami-Dade TPO Initiatives Overview

Aileen Bouclé, AICP

Miami-Dade TPO Executive Director

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Transportation Resilience in Miami-Dade County



2022

TRANSPORTATION RESILIENCE IN MIAMI-DADE COUNTY



In Miami-Dade County, resilience is woven into everything we do. As we work to improve and expand our transportation infrastructure, our plans focus on creating a more resilient, connected, and equitable system that will help put Miami-Dade on the map as a model for resilient transportation.

Our County's rapid responses to short- and long-term shocks and stresses, such as climate change and the COVID-19 pandemic, showcase our track record in reimagining how government and community partners can collaborate on achieving resilience goals in terms of our urban transportation network. County staff integrates these lessons learned into the Resilient305 Strategy, the Strategic Miami Area Rapid Transit (SMART) Plan, Climate Action Strategy, and the 2045 Miami-Dade Long Range Transportation Plan (LRTP). These interlocking, complementary plans ensure that Miami-Dade County thrives now and for decades ahead while serving as a global leader in resilience.

Our diverse community is renowned for its innovative entrepreneurs and impressive network of local partners and collaborations across multiple disciplines. This facilitates our ability to embrace emerging technologies that will launch us boldly into the future. Our agencies are working towards achieving success in a wide range of resilience efforts, including the installation of more electric vehicle charging stations, reshaping our urban land uses and bus system, and committing to more bicycle and pedestrian friendly neighborhoods that put people first.

Sincerely,

Daniella Levine Cava, Mayor
Miami-Dade County

Sincerely,

Oliver G. Gilbert III, Chairman
Miami-Dade Transportation Planning
Organization



What is Resilient Transportation?

Integrated

Flexible

Redundant

Resourceful

Inclusive

Innovative

Robust

1 ft Sea Level Rise

Transportation Resilience Highlights

Address Interconnected Issues:

- Climate Change
- Disaster Risk Reduction
- Social Equity
- Unite Systems & Organizations with Shared Resources
- Adaptable to Crisis
- Innovative & Flexible with New & Emerging Technologies

Resilience in Action: Miami-Dade County SMART Program

THE THREE PILLARS

CHOICE

COMMUNITY

CONNECTIVITY

THE SMART PLAN

WHY IS THE SMART PLAN SO CRITICAL?

The SMART Plan includes rapid transit corridors and express bus routes to increase connectivity for approximately **77%** of Miami-Dade County residents that travel outside their residential district for employment to other areas of the County.

SMART PLAN FACTS

1.7 MILLION RESIDENTS

More than half of the County's population live within 2-miles of SMART Plan Corridors.

855,000 JOBS

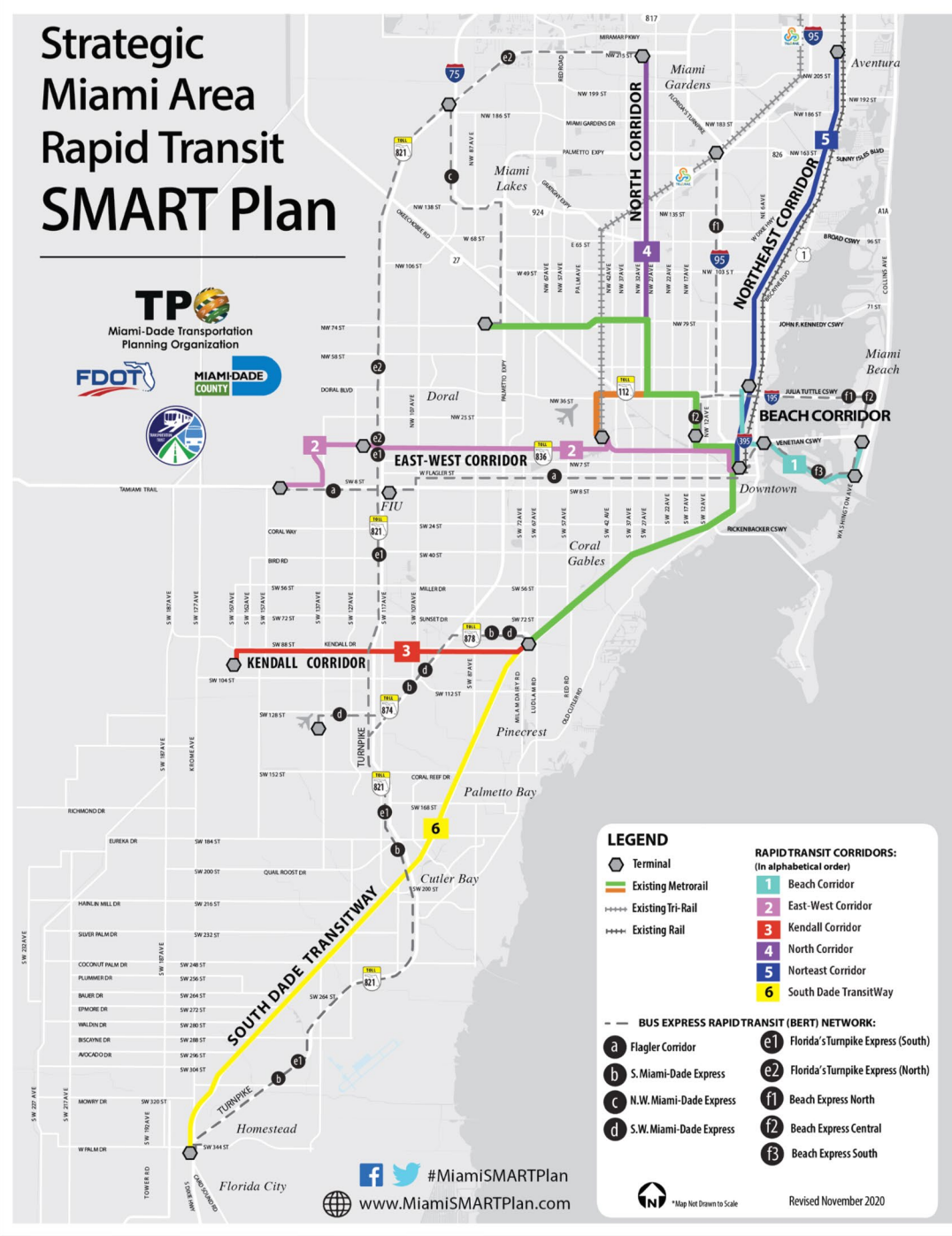
Are located within a 2-mile radius of SMART Plan Corridors.

SMART Plan to SMART Program

SMART Plan to SMART Program

Strategic Miami Area Rapid Transit SMART Plan

TP
Miami-Dade Transportation Planning Organization



LEGEND

- Terminal
- Existing Metrorail
- Existing Tri-Rail
- Existing Rail

RAPID TRANSIT CORRIDORS:
(In alphabetical order)

- Beach Corridor
- East-West Corridor
- Kendall Corridor
- North Corridor
- Northeast Corridor
- South Dade TransitWay

BUS EXPRESS RAPID TRANSIT (BERT) NETWORK:

- Flagler Corridor
- S. Miami-Dade Express
- N.W. Miami-Dade Express
- S.W. Miami-Dade Express
- Florida's Turnpike Express (South)
- Florida's Turnpike Express (North)
- Beach Express North
- Beach Express Central
- Beach Express South

*Map Not Drawn to Scale

Revised November 2020

Land Use Scenario Planning

Integration of land use and transit planning to serve as the foundation of a sustainable community



SMART Demonstration Program



EXPAND MOBILITY & CONNECT COMMUNITIES



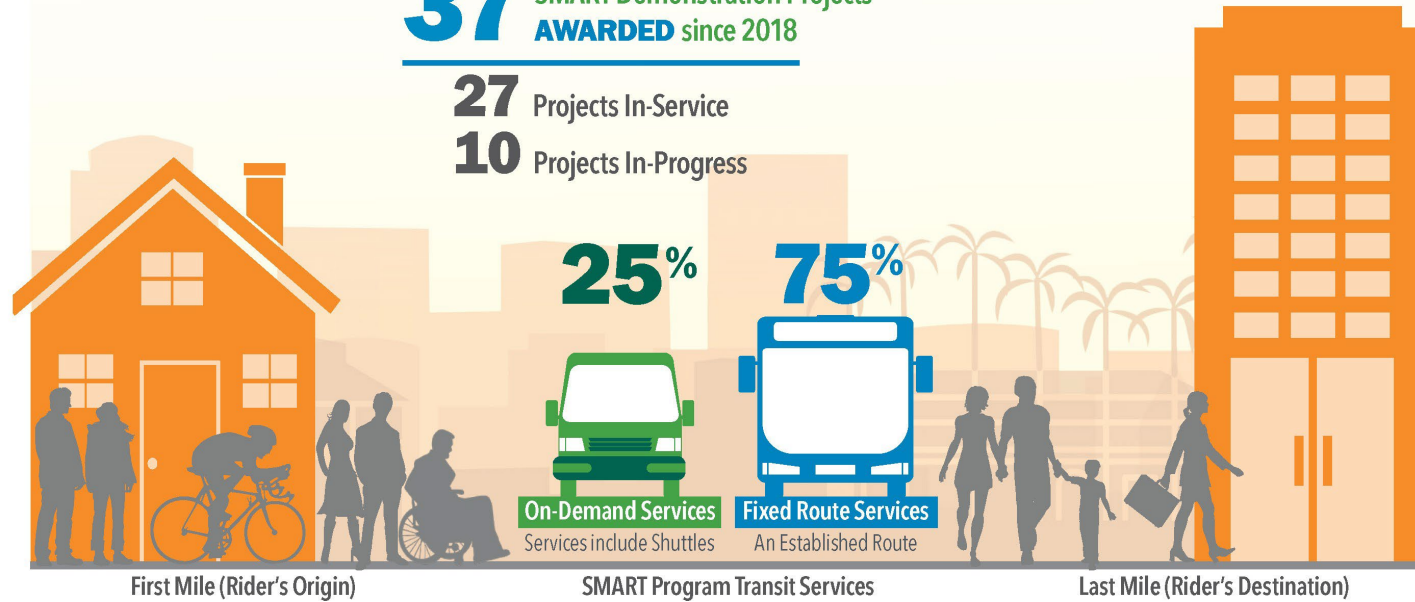
Miami-Dade County
SMART PROGRAM
DEMONSTRATION PROJECTS

QUICK FACTS:

37 SMART Demonstration Projects
AWARDED since 2018

27 Projects In-Service

10 Projects In-Progress



Transportation Partners:



TOTAL RIDERSHIP

6.25 Million

Since program inception

ANNUAL FUNDING

(In Millions)



FY = Fiscal Year



SMART Demonstration Program

SMART STEP Program

SMART STEP

Street Transportation Enhancement Program

11 Projects

TPO Urban Mobility & Non-Urban Core Task Forces

Award Winning SMART STEP

SW 6th Street & SW 8th Avenue (Lighthouse for the Blind)
Miami, FL



\$ Project Cost
\$45,350



Increase resources for the visually and hearing impaired by adding the Polara PedApp smartphone application to safely cross the intersection.

W 74th Place at W 3rd Court & Amelia Earhart Park Entrance
Hialeah, FL



\$ Project Cost
\$267,000

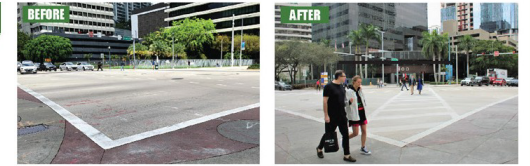


Enhance and prioritize safe pedestrian mobility by installing crosswalk pavement markings and access to Amelia Earhart Park for the adjacent elderly community.

SE 8th Street & Brickell Avenue
Miami, FL



\$ Project Cost
\$126,344



Enhance and prioritize bicycle/pedestrian mobility by implementing a scramble crosswalk providing the pedestrian a phase to safely maneuver throughout the intersection, including moving diagonally.

NW 157th Street (W Bunche Park Drive) & NW 22nd Avenue
Miami Gardens, FL



\$ Project Cost
\$74,618



Enhance and prioritize bicycle/pedestrian mobility by improving pedestrian crossings and implementing green color bicycle lanes.

SW 92nd Street & SW 122nd Avenue
Unincorporated Municipal Service Area (UMSA)



\$ Project Cost
\$23,177



Enhance and prioritize pedestrian mobility by improving the pedestrian crossings and installing/upgrading existing ADA ramps at all corners of the intersection.

NW 74th Street & NW 107th Avenue
Doral, FL



\$ Project Cost
\$120,300



Enhance safety and connectivity along an existing shared use path for pedestrians/bicyclists along a multi-lane/heavily traveled intersection.

New & Emerging Technologies

TPO RESOLUTION #06-2021

Pilot Telecommuting Program

- Miami-Dade TPO Resolution #06-2021
- Collaboration with South Florida Commuter Services
- Focused on promoting telecommuting
- Identify resources needed to breakdown telecommuting barriers



RESOLUTION AUTHORIZING THE TPO EXECUTIVE DIRECTOR OR DESIGNEE TO NEGOTIATE AN AGREEMENT WITH THE SOUTH FLORIDA COMMUTER SERVICES TO INITIATE A PILOT TELECOMMUTING PROGRAM IN ORDER TO MAXIMIZE TELECOMMUTING OPPORTUNITIES IN SOUTH FLORIDA AND FURTHER AUTHORIZING THE TPO EXECUTIVE DIRECTOR TO EXECUTE SAID AGREEMENT SO LONG AS NO TPO FUNDS ARE OBLIGATED

WHEREAS, the Interlocal Agreement creating and establishing the Metropolitan Planning Organization (MPO) for the Miami Urbanized Area requires that the Miami-Dade Transportation Planning Organization (TPO), in its role as the MPO, provide a structure to evaluate the adequacy of the transportation planning and programming process; and

WHEREAS, in March 2020, various federal, state, and local emergency orders were declared as a result of the coronavirus disease 2019 (COVID-19) global pandemic; and

WHEREAS, on July 23, 2020, the TPO Governing Board adopted Resolution #21-2020 approving the scope of services and budget to study the concept of telecommuting as part of an overall strategy to reduce congestion in Miami-Dade County; and

WHEREAS, the COVID-19 pandemic presented an opportunity for telecommuting to be part of a growing trend in many industries to comply with COVID-19 social distancing guidelines; and

WHEREAS, the findings of the telecommuting study indicate that the shift to telecommuting associated with the COVID-19 pandemic lowered peak period traffic and reduced congestion, illustrating the potential effectiveness of telecommuting as a viable travel option; and

WHEREAS, recognizing the potential of telecommuting as a means to ‘flatten the congestion curve,’ as well as other benefits outlined in the study, a set of policy recommendations was developed to promote telecommuting in South Florida, including the implementation of a telecommuting program; and

WHEREAS, the South Florida Commuter Services (SFCS) and the Miami-Dade TPO will collaborate on initiating such a telecommuting program; and

WHEREAS, the SFCS has demonstrated an interest in managing and providing a financial contribution towards the Pilot Telecommuting Program,

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE TRANSPORTATION PLANNING ORGANIZATION IN ITS ROLE AS THE MPO FOR THE MIAMI URBANIZED AREA, that this Board hereby authorizes the TPO Executive Director or designee to negotiate an Agreement with the South Florida Commuter Services to initiate a Pilot Telecommuting Program in order to maximize telecommuting opportunities in South Florida and further authorizes the TPO Executive Director to execute said agreement so long as no TPO funds are obligated.



URBAN AIR MOBILITY TECHNOLOGY



In 2022, Miami-Dade TPO approved a study for the eventual integration of Urban Air Mobility (UAM) tech into the County's transportation network.

Interim report identified four types of infrastructure necessary for UAM:

- Vertiports
- Energy Infrastructure
- Safety/Security
- Airspace



Miami-Dade TPO 2050 LRTP

2050 Long Range Transportation Plan

“SMART M.A.P. 2050”

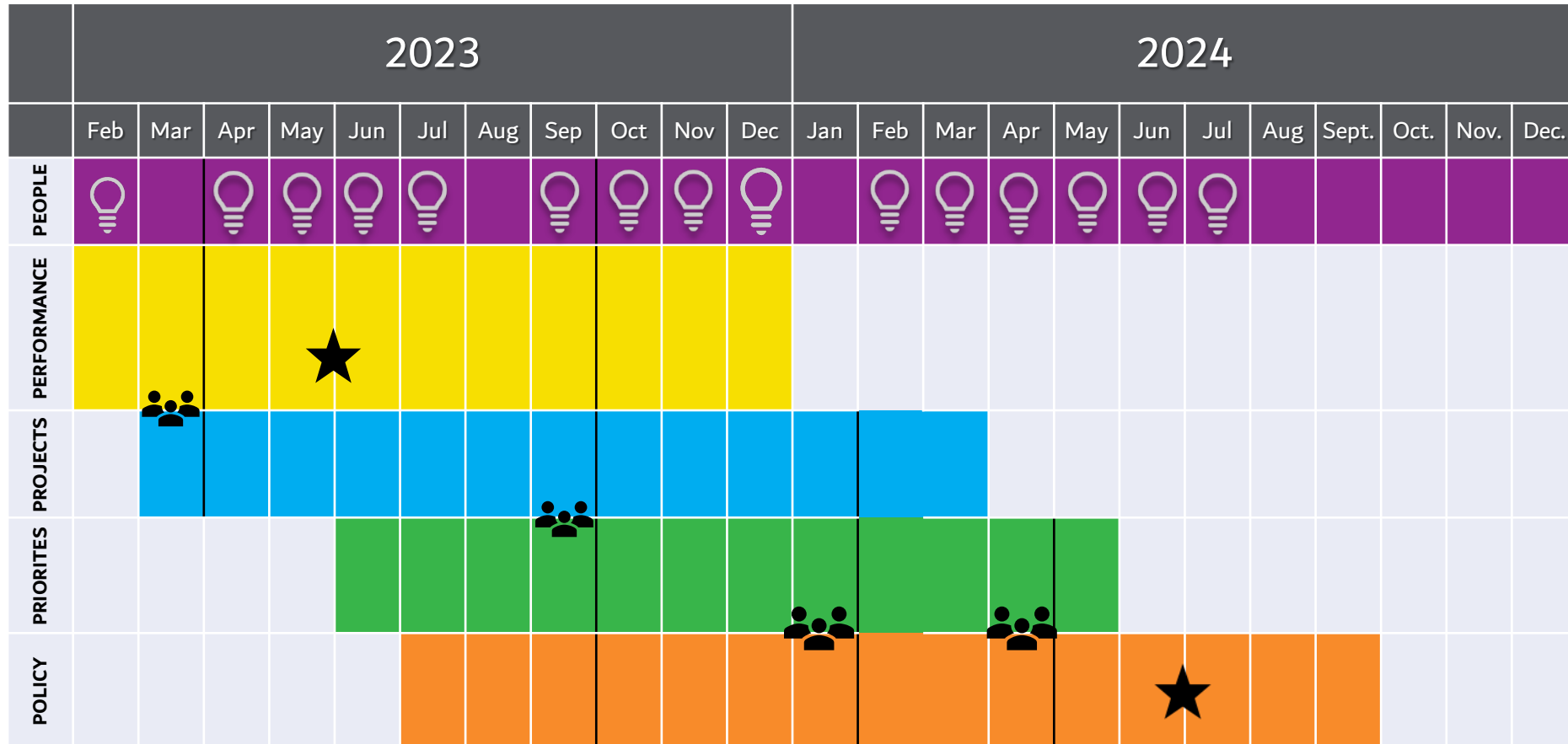
Mobility. Accessibility. Prosperity.





2050 LRTP High-Level Timeline

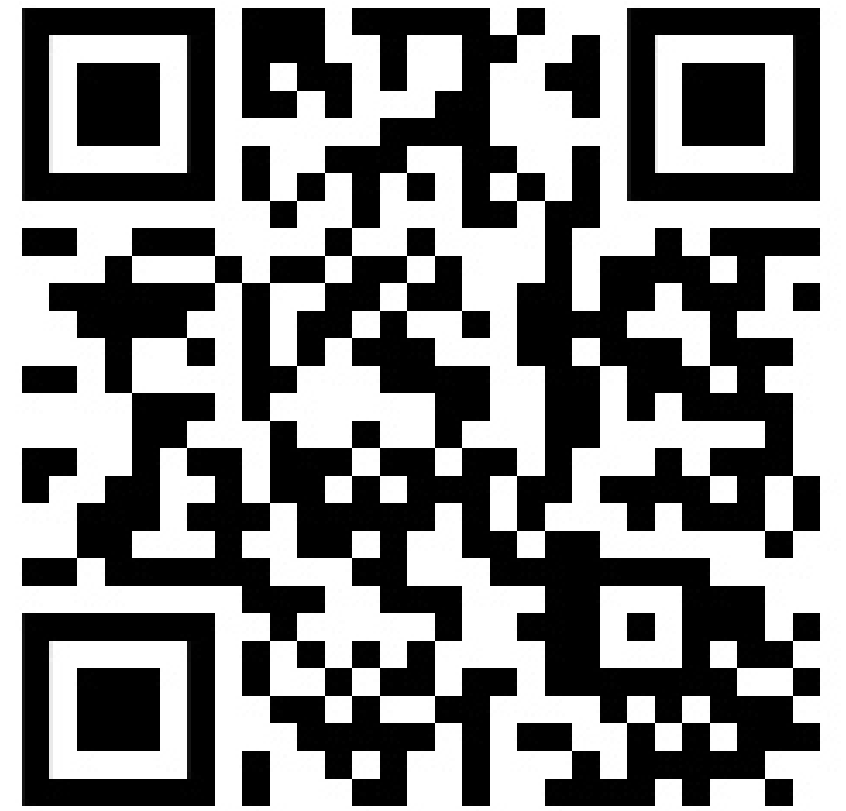
- ★ Adoption Milestone
- 👥 Public Outreach Event
- 💡 Steering Committee Mtg.





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Miami-Dade County Bicycling Needs Survey



<https://tinyurl.com/MiamiDadeBikeSurvey>



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THANK YOU!

**Aileen Bouclé, AICP
Executive Director**

MiamiDadeTPO.org



#MiamiSMARTProgram



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