



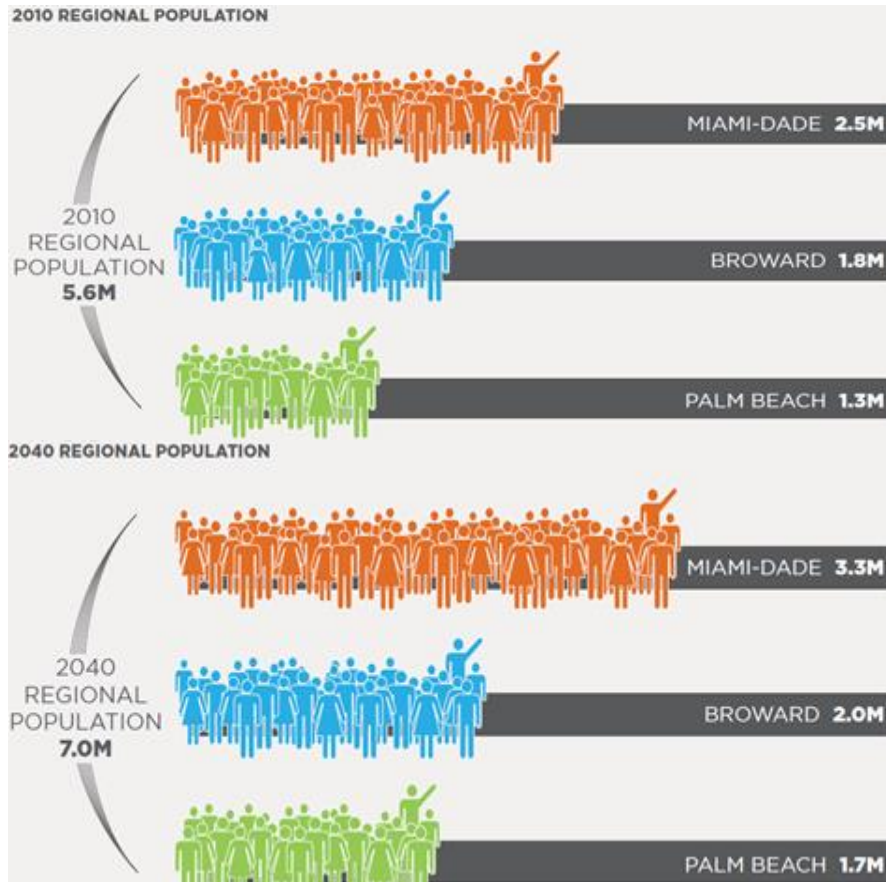
The Beacon Council
THE FUTURE OF TRANSPORTATION

Alice N. Bravo, P.E. Director

A nighttime photograph of a city skyline, likely Miami, with several tall skyscrapers illuminated. In the foreground, a multi-lane highway curves through the scene, with long-exposure light trails from cars creating streaks of white and red. The sky is dark, and the overall atmosphere is urban and vibrant.

over **300** square miles
2.7million residents
34 municipalities
One County

Miami-Dade County



- **8th** most **populous** county in US
- **1st** most **populous** county in FL
 - largest seniors & millennials population
- Top **tourist destination**
 - 15.4 million visitors in 2015
- **Primary** Central Business District in Southeast Florida

source: Southeast Florida Regional Transportation Plan

A Mobility Management Agency



Department of **Transportation & Public Works**



**Traffic
Engineering**



**Signals and
Signs**



**Transit
Systems**



Bike/Ped





8th most congested metro area
7,680 paved lane miles roadway
18 million linear feet sidewalk
171 million drainage canals
one million traffic signs
26,400 street lights
3,000 traffic signals
209 bridges

15th largest

transit system in US

360 sq.mi.

transit service area

350,000

boardings (75,000 on rail)

over **850** buses

in 98 routes

22-mile

exclusive bus Transit Way

25-mile

elevated heavy rail

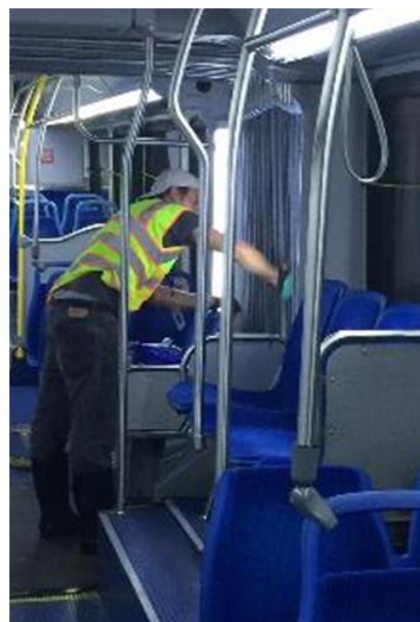
4.4-mile

automated people mover



Our focus has been on moving people and **minimizing the time a commuter spends** driving their car. We have partnered with our peer agencies to **improve mobility** in Miami-Dade County and have already seen some early wins.

What we've accomplished



Clean, Safe, Reliable and Convenient Service

ENHANCED SECURITY

- Upgrade of the Closed-Circuit Television (CCTV) system
 - State-of-the-art and high definition cameras
 - Provide coverage throughout the system
- When completed, DTPW will have the ability to view the system through nearly 1,400 cameras



Rate Your Ride

Let us know how we're doing

- **Mobile App: “Rate Your Ride”**
 - Launched in October 2015
 - Transit riders provide feedback on how we're doing using their smartphone
 - Transit riders can rate us from 1 to 5 across these categories:
 - ✓ Cleanliness
 - ✓ Convenience
 - ✓ Reliability
 - ✓ Courteous service
 - ✓ Amenities
 - The decals with QR code inside buses, Metrorail and Metromover trains
 - Available via MDT Tracker app





FAST TRACK YOUR COMMUTE

METRORAIL EXPRESS

DRIVE LESS. LIVE MORE.™



**DOWNLOAD MDT
TRACKER APP**

Available on the
App Store

GET IT ON
Google Play



New Express Routes



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS





Air Conditioned Bus Shelter & Fans at Metromover Stations

Metrorail Car Assembly Facility

ACHI
the Next



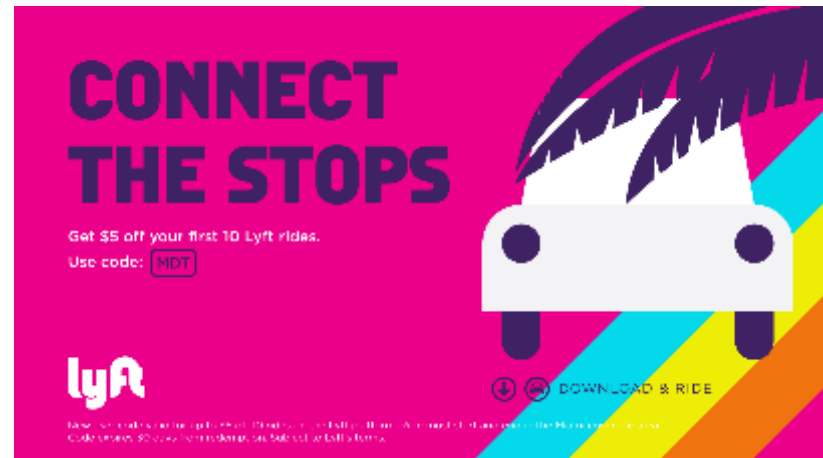


New Metrorail Vehicles & Updating Bus Fleet

Improving Mobility

Transportation Network Entities

- Ordinance for TNEs
- Strategies with TNEs for first-mile/last-mile solutions:
 - Discounted Uberpool rides from/to Metrorail stations, from during Sep.
 - Discounted Lyft rides for new users, from Sep. thru Nov.





Mobility Innovation

- **MPO's Connected and Autonomous Vehicle (CAV) Task Force**
 - Joined efforts to enhance collaboration and facilitate CAV project development and deployment within Miami-Dade
- **Miami Parking Coalition Initiative** – partnered to reduce congestion through shared information
 - Municipal/private parking providers coalition
 - Integration of parking assets and real-time information
- **Sidewalk Labs' Smart Parking App**
 - Partnership with Sidewalk Labs for Flow Program in Miami
 - Smart parking app to help drivers find available parking real time through Google Maps
- **PayByPhone Partnership**
 - Efforts to implement parking payment applications for Metrorail parking garages and Park & Ride locations
- **Bike Share Program**
 - Issued RFP for Bike Share and Automated Bicycle Rental program at Metrorail Stations and other County Facilities



BIKE SHARE: 4 EASY STEPS



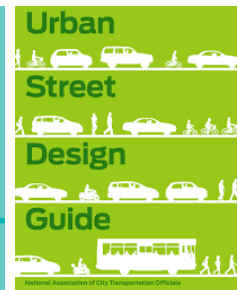
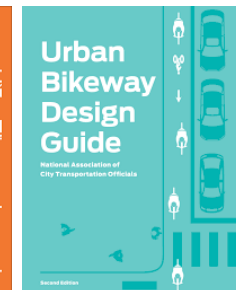
National Collaborative

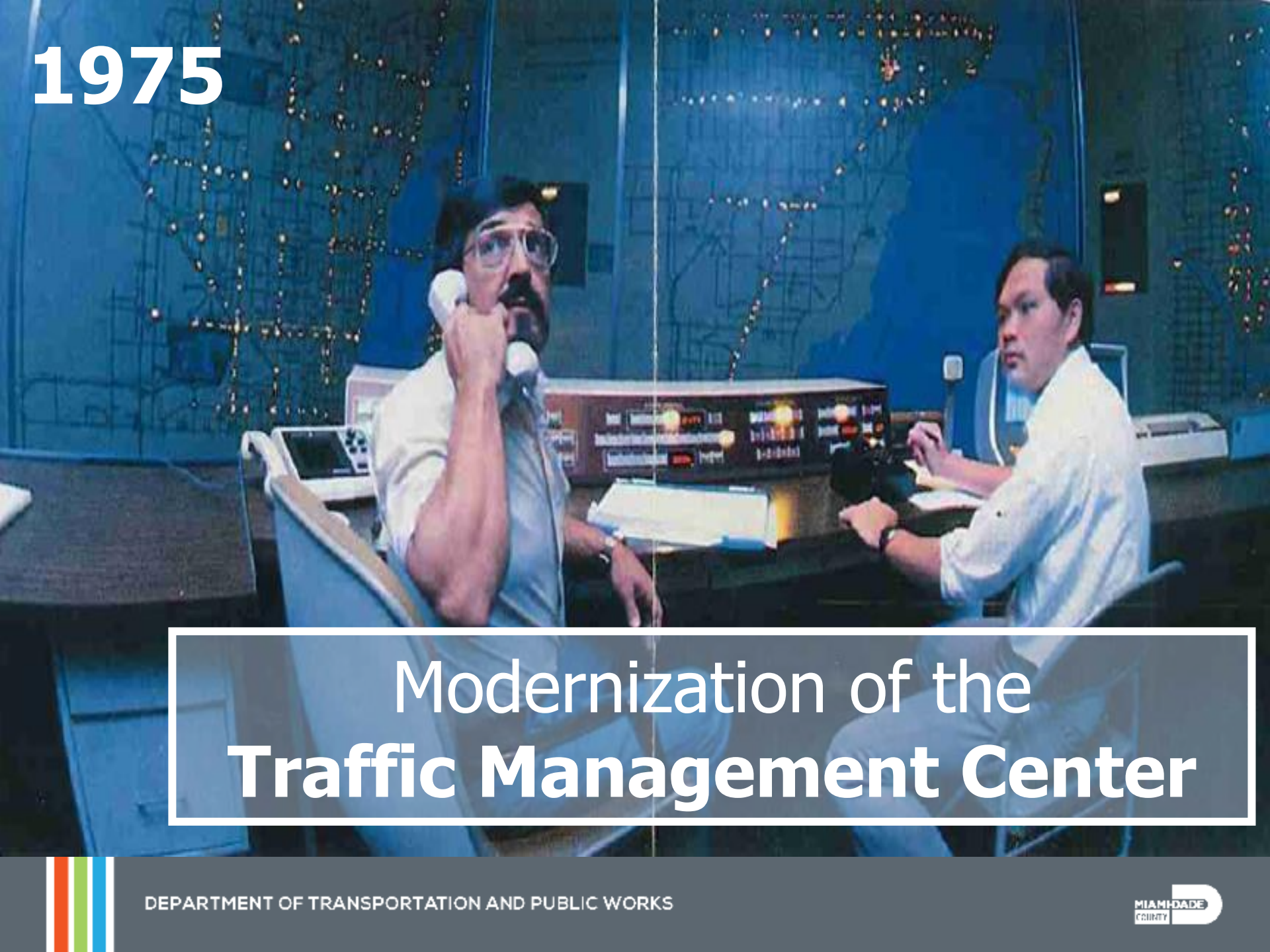
- **City Innovate Foundation (CIF)'s Superpublic**
 - focused on tackling urban mobility problems and devise solutions
 - Workspace for policymakers, academics, entrepreneurs, industry experts, nonprofit leaders
 - Miami-Dade as leading metro area in a series of colliders (deep-dive workshops) for Open Backend Integration and Mobility on Demand solutions
- **Transportation for America (T4America)'s Smart Cities Collaborative**, from national collaborative to find technology solutions to U.S. cities transportation and mobility challenges
- **National Association of City Transportation Officials (NACTO)**
 - 1st County to join NACTO's vast network
 - 2nd transit agency after NYC to join NACTO

**SUPER
PUBLIC**



**Transportation
for America**





1975

Modernization of the Traffic Management Center



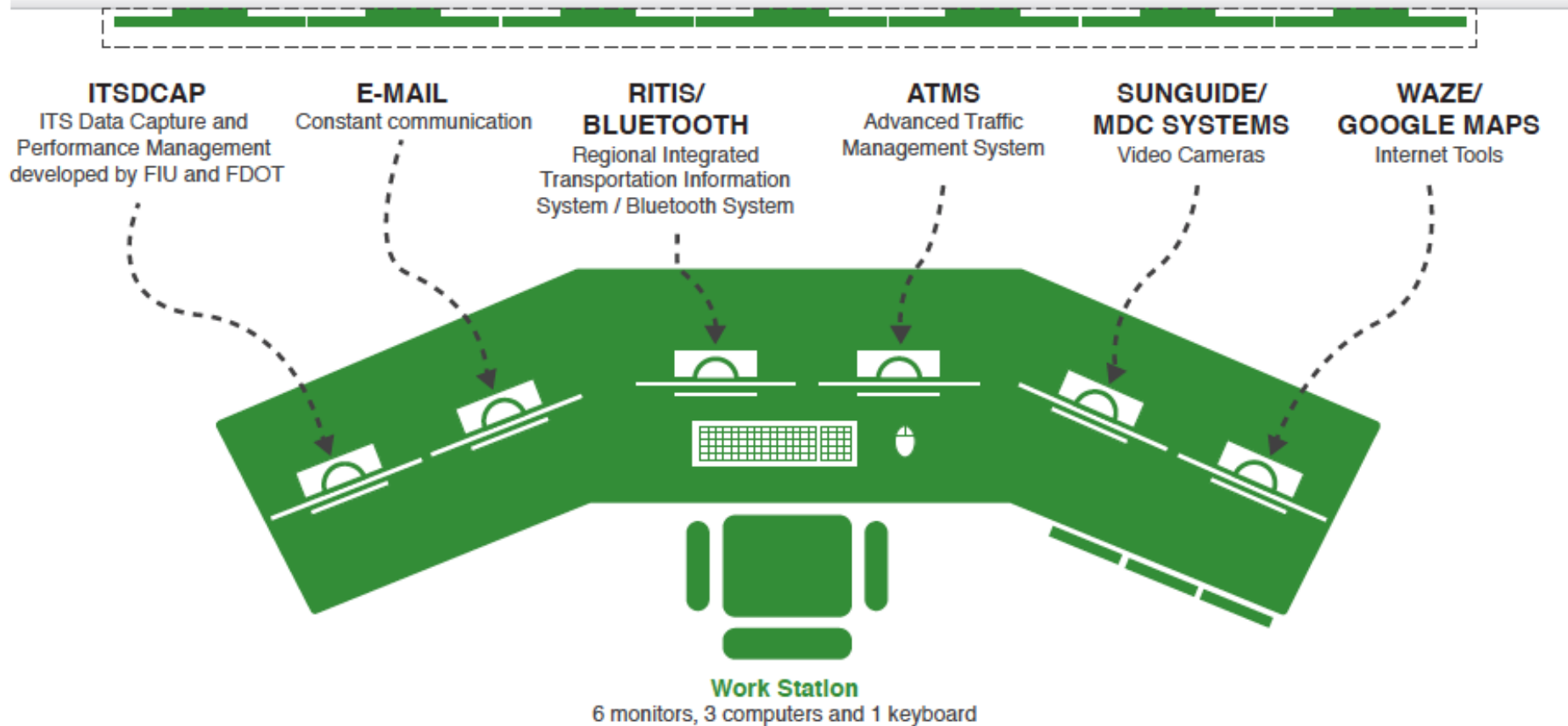
2016



TOOLS & RESOURCES

VIDEO WALL

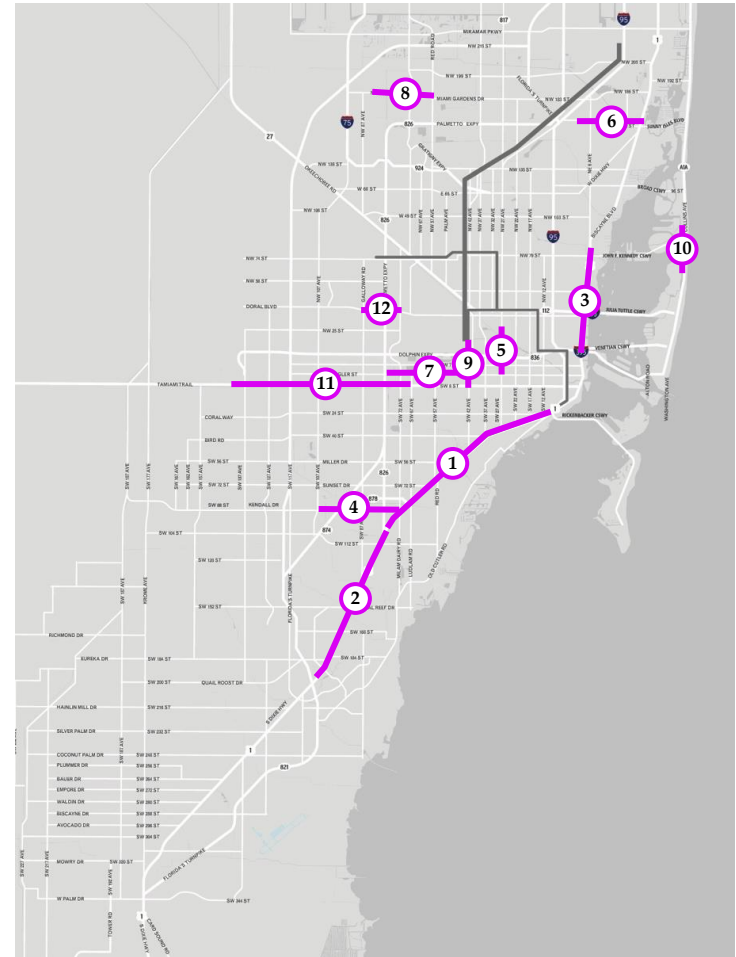
2 rows of 7 monitors (14 total) connected to the workstations

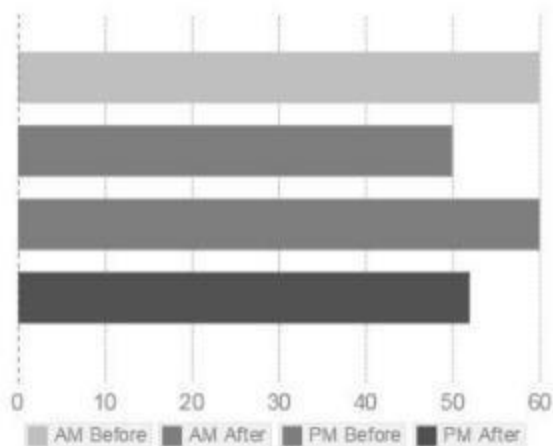


Synchronized Signalized Intersections **Top 12 Most Congested Corridors**

Partnered with FDOT to **optimize signal timing** on these corridors

1. US 1, from SW 16 Avenue to SW 98 Street
2. US 1, from SW 104 Street to SW 195 Block
3. Biscayne Boulevard – NE 11 Terrace to NE 82 Street
4. Kendall Drive, from Dadeland Boulevard to SW 107 Avenue
5. NW 27 Avenue, from W Flagler Street to NW 20 Street
6. NW 163 Street, from US 1 to NE 10 Avenue
7. W Flagler Street, from LeJeune Road to NW 79 Avenue
8. Miami Gardens Drive, from Red Road to NW 79 Avenue
9. LeJeune Road, from SW 8 Street to NW 14 Street
10. Harding Avenue/Abbott Avenue/Indian Creek Drive, from 81 Street to 63 Street
11. SW 8 Street, from SW 67 Avenue to SW 142 Avenue
12. NW 36 Street, from Galloway Road to NW 7100 Block





the average AM peak hour travel time has been reduced from 60 minutes to 50 minutes and PM peak hour from 60 minutes to 52 minutes.

1,260 hrs
during peak hour

Peak Hour Travel Time along US1 between SW 152nd Street & SW 16th Avenue

25 % Peak Period has been reduced from 9 hours to 6.75 hours per day

AM Peak Period



■ Before at 4.5 hrs
■ After at 3.5 hrs

PM Peak Period



■ Before at 4.5 hrs
■ After at 3.25 hrs

\$6M in peak hour savings &

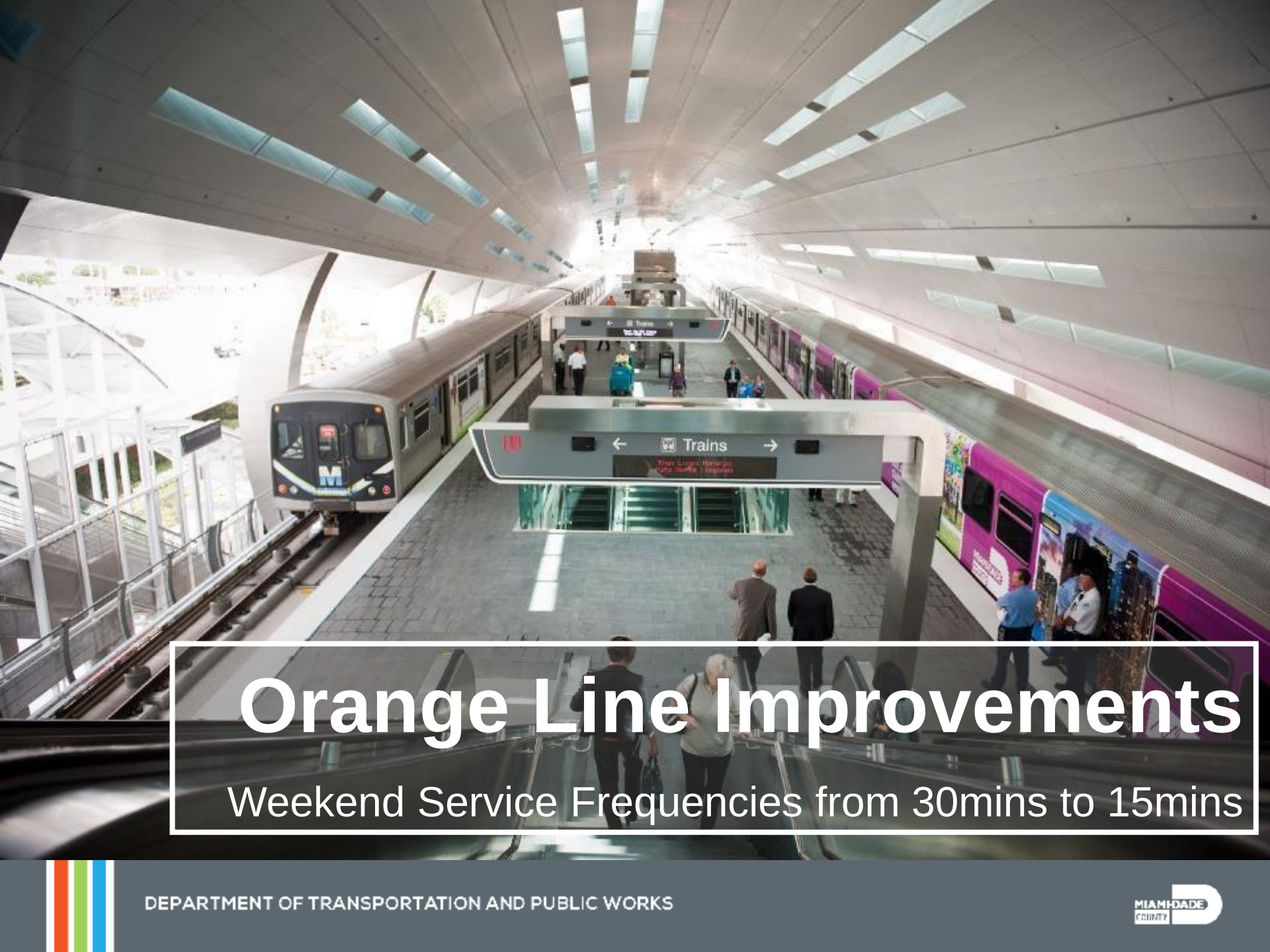


\$20M in total peak period savings per year

New Controllers for Improved Traffic Flow



- **Smart signals technology**, from to monitor traffic flow and reprogram signal timing to respond quicker to changing traffic conditions
 - Upgrading traffic signals with intelligent traffic controller technology
 - Implementing smart flow detection systems
- **Initial deployment along Congestion Management Corridors**
 - Intelligent traffic controller technology along with adaptive traffic signal systems and cameras are being deployed along 12 congestion management corridors
 - **1st new signal controllers and adaptive traffic signal system** already implemented on NW 36 Street between Galloway Road and NW 7100 Block
- **Transit Signal Priority (TSP) integration for buses**
- **Reversible lanes**

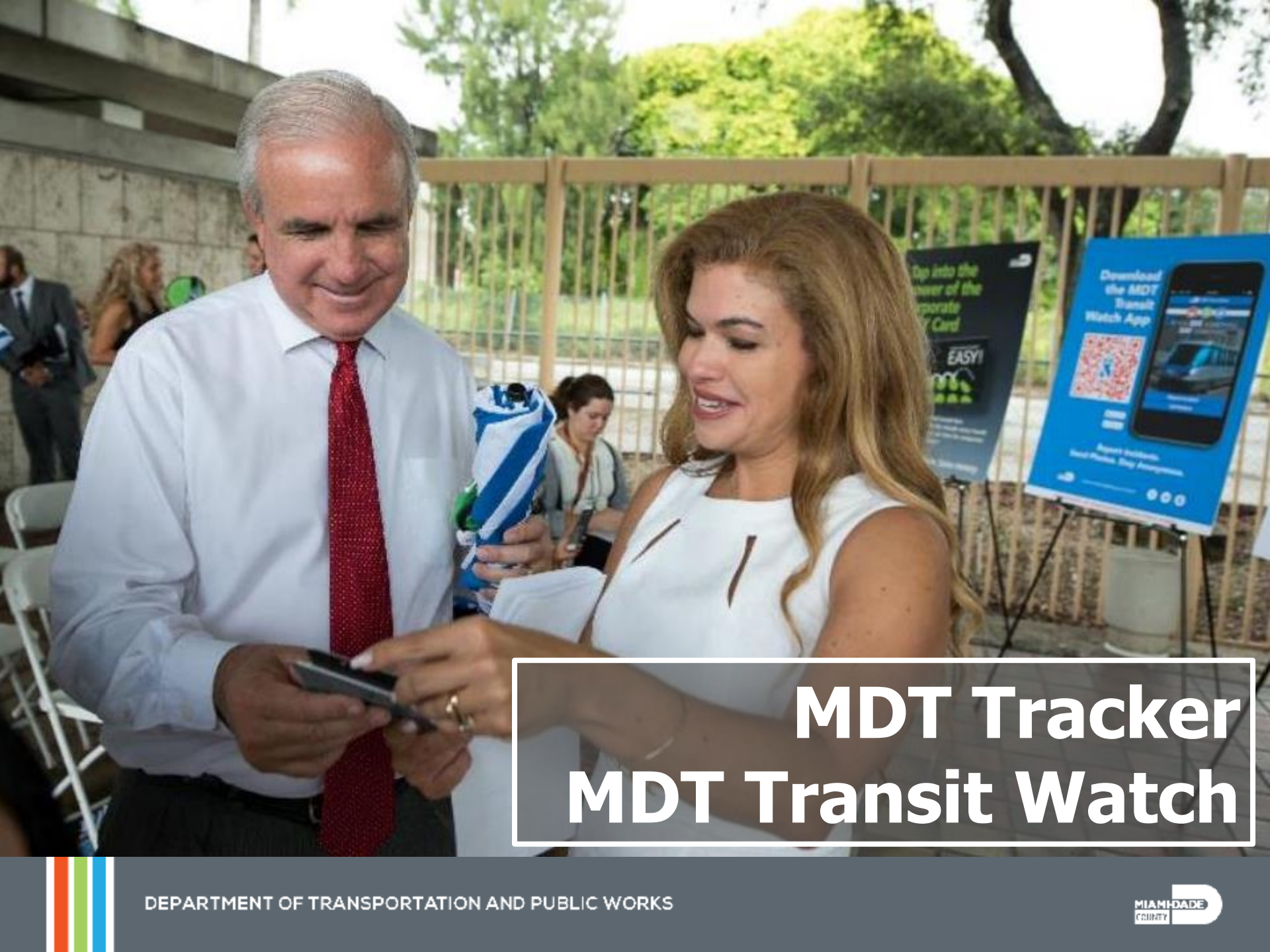


Orange Line Improvements

Weekend Service Frequencies from 30mins to 15mins

A photograph of a man and a woman sitting on a Metrorail train. The man, on the left, is wearing a dark suit jacket over a white shirt and is smiling. The woman, on the right, is wearing a dark green top and white earbuds, holding a purple smartphone and smiling. They are both looking at each other. The train has large windows showing a blurred outdoor scene.

Extended Metrorail hours on Fridays and Saturdays until 2 a.m.



MDT Tracker MDT Transit Watch

Improving Transit Reliability

IMPROVING METROBUS RELIABILITY

- **On-time performance improvements**
 - adjustments to 38 Metrobus routes
- **Real-Time Tracking for Buses**
 - CAD/AVL system to monitor buses, see buses stuck in traffic and relocate resources to improve reliability
 - Provide real-time tracking and ETA information for users

MUNICIPAL DATA INTEGRATION PROJECT FOR TRIP PLANNING

- **Integration of Municipal Circulators** with MDT Tracker web-based and mobile applications

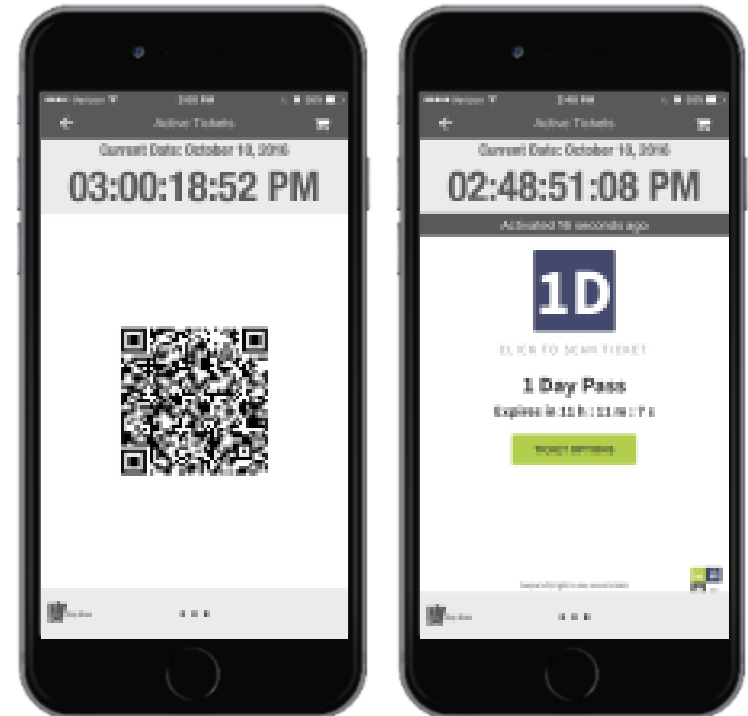


GO MIAMI-DADE MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

Upcoming All-Inclusive Trip Planner & Payment App

- An infrastructure project for Open Back End Integration
- An **account-based system** that works across different fare structures & transportation providers
 - Purchase **transit tickets/passes**
 - **Book & pay** for services
 - Reload **account(s)** cards instantly
- Eliminate need to carry **EASY**card for Pay as You Go
 - Use Near Field Communication (NFC) enabled **smartphones, wearables** and **contactless bank** cards

EASY Pay



Transit Oriented Developments (TODs)



Santa Clara



Northside



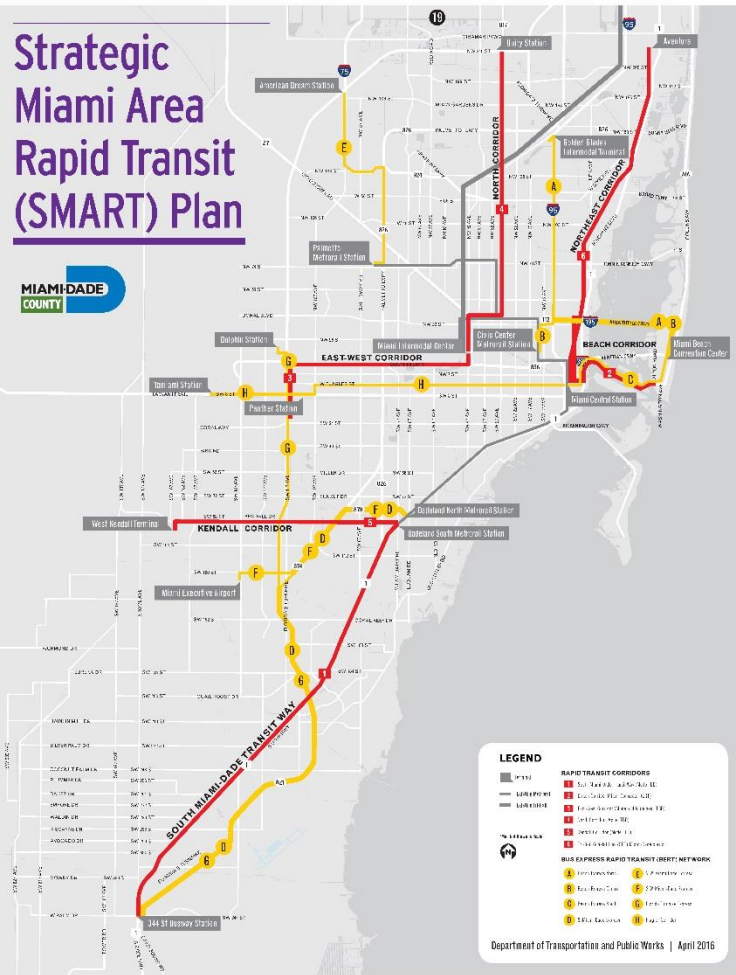
Brownsville



NW 7th Avenue Transit Village

- Promote and encourage development of dense **mixed-use developments** on County owned properties
- **Affordable housing** developments at Metrorail stations
 - **Completed TODs:** Santa Clara, Northside, Brownsville and NW 7 Ave. Transit Village
 - **Planned TODs:** Busway, SW 200 St., Busway & SW 296 St. and NW 27 Ave. & NW 215 St.
- Pursue opportunities for **large market rate joint developments:**
 - Brickell Citi Centre, Downtown Miami
 - Miami Worldcenter, Overtown

SMART Plan



Six rapid transit corridors

North corridor (HRT)

East-west corridor (HRT)

Beach corridor (LRT)

South corridor (HRT)

Kendall corridor (BRT/LRT)

Northeast corridor (CRT)

PUBLIC TRANSIT DAY

DECEMBER 9

HAVE YOUR MORNING
COFFEE WITH US...

...ON TRANSIT

**PUBLIC
TRANSIT
DAY**

TAKE THE PLEDGE
PUBLICTRANSITDAY.COM

#PUBLICTRANSITDAY

Public Transit Day on Friday, December 9th

 Nelson Rodriguez	 Karyn Cunningham	 Jose Felix Diaz	 Enid Welsman	 Grisella Digiacomo
 Patricia Fairclough	THESE LOCAL LEADERS HAVE TAKEN THE PLEDGE WILL YOU? PUBLICTRANSITDAY.COM 			 Daniella Levine Cava
 Tony Lama	PUBLIC TRANSIT DAY DECEMBER 9, 2016			 Tim Daubert
 Zavier Garcia	 Isis Garcia-Martinez	 Ana Maria Rodriguez	 Eugene Flinn	 Luigi Boria
 Christi Fraga	 Kristen Rosen Gonzalez			

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

