

TRANSIT IN TRANSITION EVOLUTION OF PUBLIC TRANSPORTATION

APTA TBM SEMINAR SESSION: EXPANDING YOUR PALETTE-BEING AN INTEGRATOR OF SERVICES

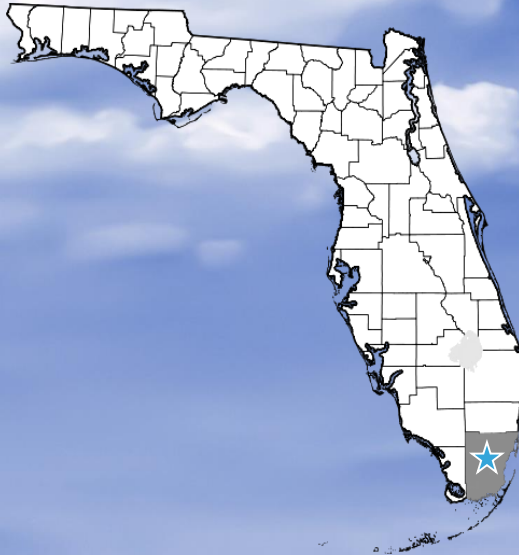


MIAMI-DADE COUNTY |
DEPARTMENT OF TRANSPORTATION + PUBLIC WORKS
presented by **Alice N. Bravo, PE, Director**
July 22, 2019

over 2,400 sq. mi.
2.7 million residents
15.4 million visitors
34 municipalities

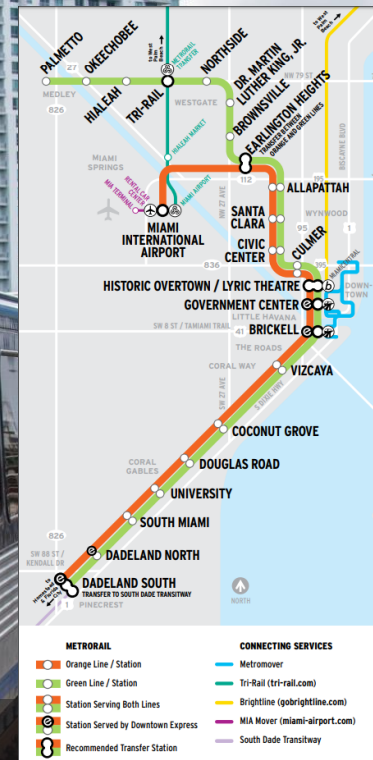
Miami-Dade

Florida's most populous County
and largest metro area



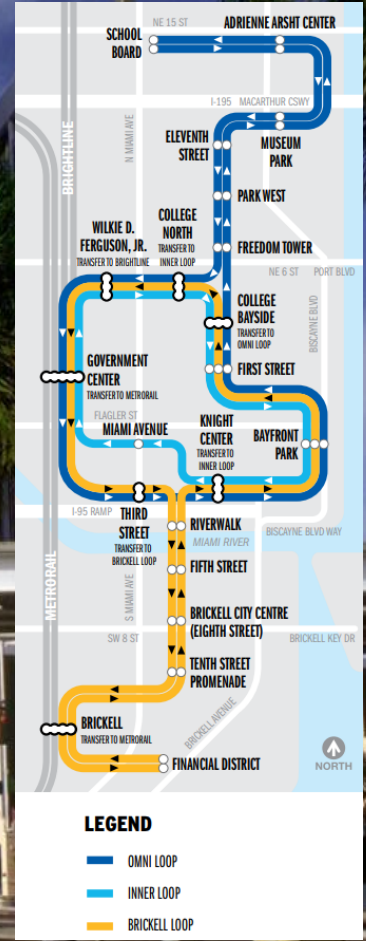
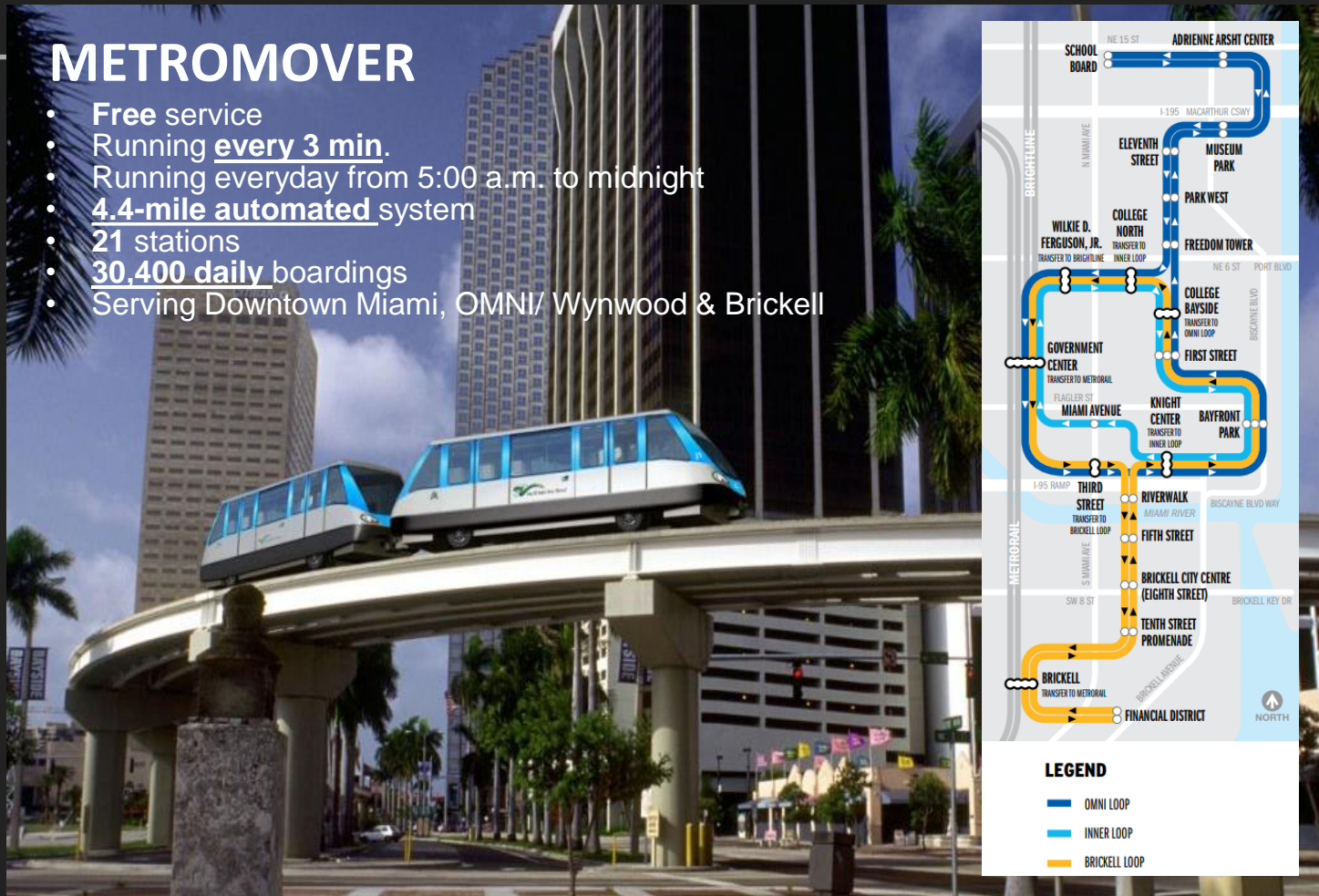
METRORAIL

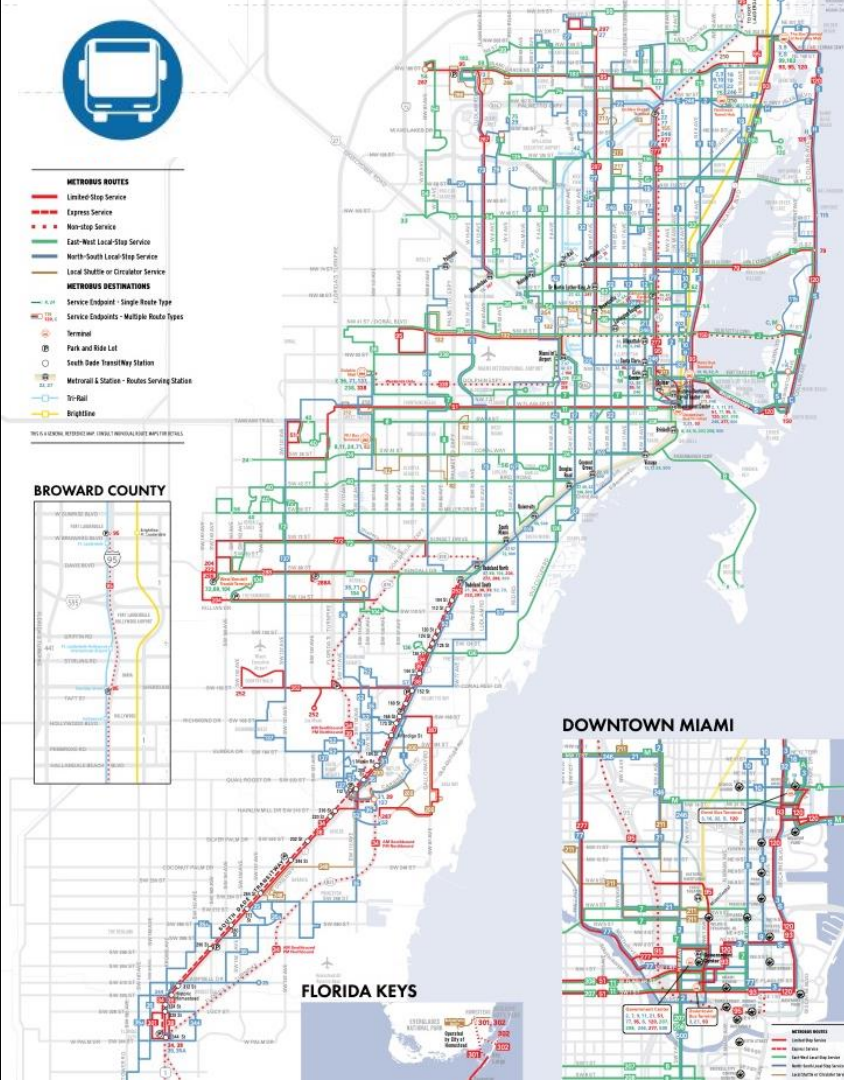
- **136 new** rail cars
- Running **every 7 min.** during peak
- Running everyday from **5am to midnight**
- Service extended during Special Events
- **25-mile** dual track
- **23 accessible** Metrorail stations
- **63,000** daily boardings



METROMOVER

- Free service
- Running **every 3 min.**
- Running everyday from 5:00 a.m. to midnight
- **4.4-mile automated** system
- **21 stations**
- **30,400 daily** boardings
- Serving Downtown Miami, OMNI/ Wynwood & Brickell





Bus Network

- 97 bus routes
- 765 vehicles in service
- 7,510 bus stops
- 164,400 boardings



1

Safer Streets

2

Micro Mobility

3

Better Transit

4

Tech Enabled

5

Changing Behavior

visionzero





Building on the Vision Zero Plan developed by the TPO

Complete Streets Guidelines

Peer Exchange

Bike Lane Network

Pedestrian Safety



microMobility



What is Shared Micromobility?

Shared Micromobility encompasses all shared-use fleets of small, fully or partially human-powered vehicles such as bikes, e-bikes, and e-scooters.



Station-based bike share
(including e-bikes)



Dockless bike share
(including e-bikes)



Scooter share

Source: NACTO

Our goal.



betterTransit

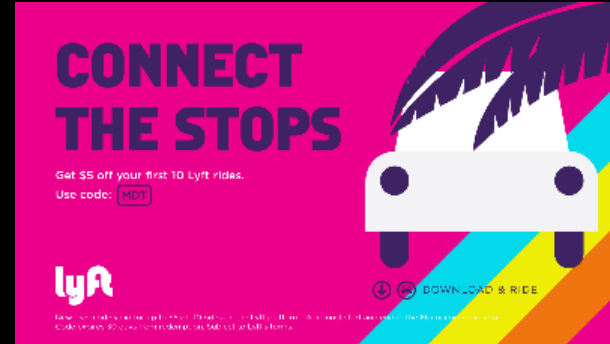




Depending where you are, you have options to get to the transit stop:

- walking & biking
- shared-use mobility
- micromobility
- driving

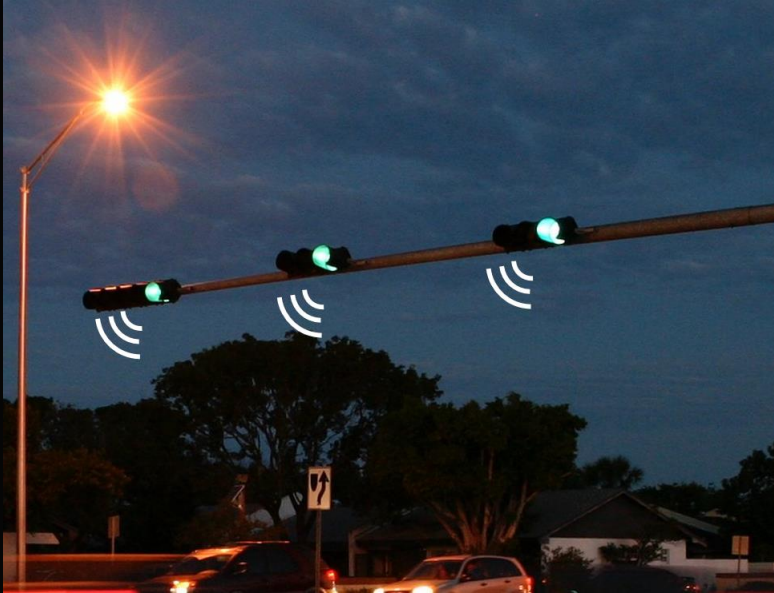
Miami-Dade partners with private mobility providers to enhance access to public transportation.



IMPROVING ACCESS TO TRANSIT

- Ridesharing
- Electric bikesharing program at transit stations
- Designated parking spaces at metrorail stations for ZipCar vehicles
- Vanpooling
- Carpooling

TRANSIT SIGNAL PRIORITY



TSP FOR EXPRESS ROUTES ON TRANSITWAY

- Project completed in July 2018
- Up to 25% reduction in travel time (17 min.)
- Avg. travel time reduce from 67 to 50 min.



BUS LANE

- 1st Street Project in Downtown
- Completed in August 2017



FIRST/LAST MILE SOLUTION



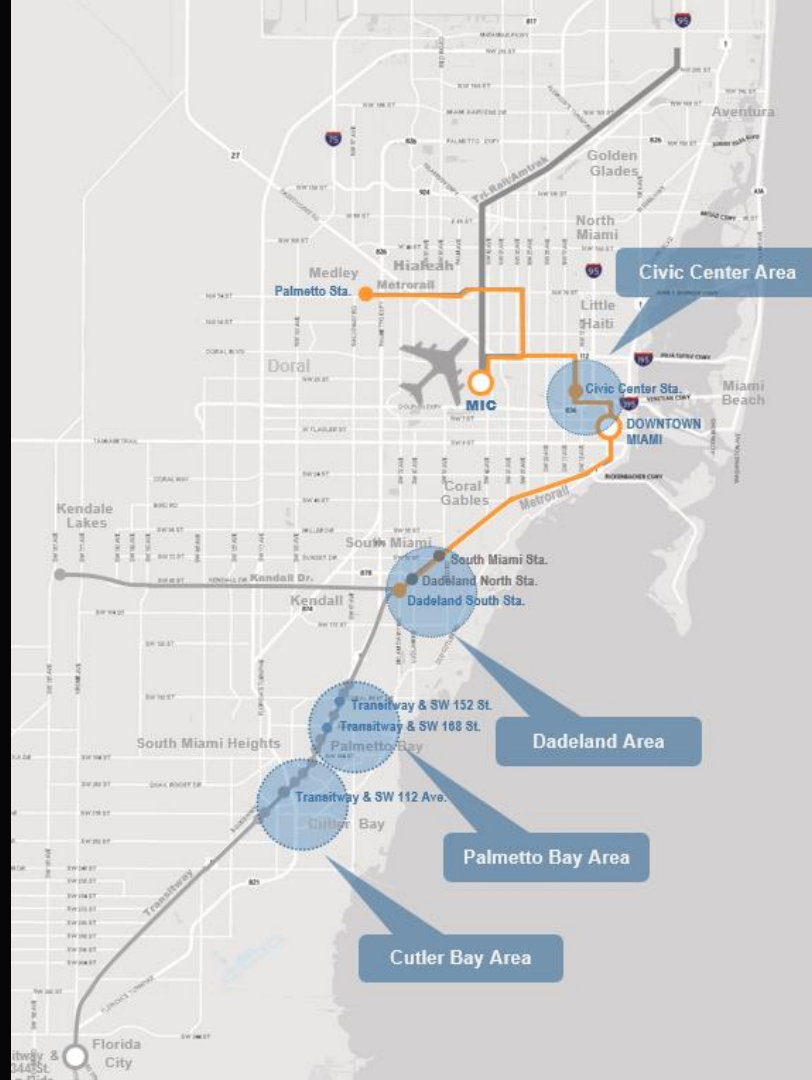
ON-DEMAND TRANSIT

What: Miami-Dade will deploy real-time on-demand technology, using small transit vehicles, for a dynamically routed, on-demand transit to provide shared, near door-to-door rides for commuters and ambulatory paratransit riders connecting with Metrorail stations.

Who: procuring technology and on-demand services.

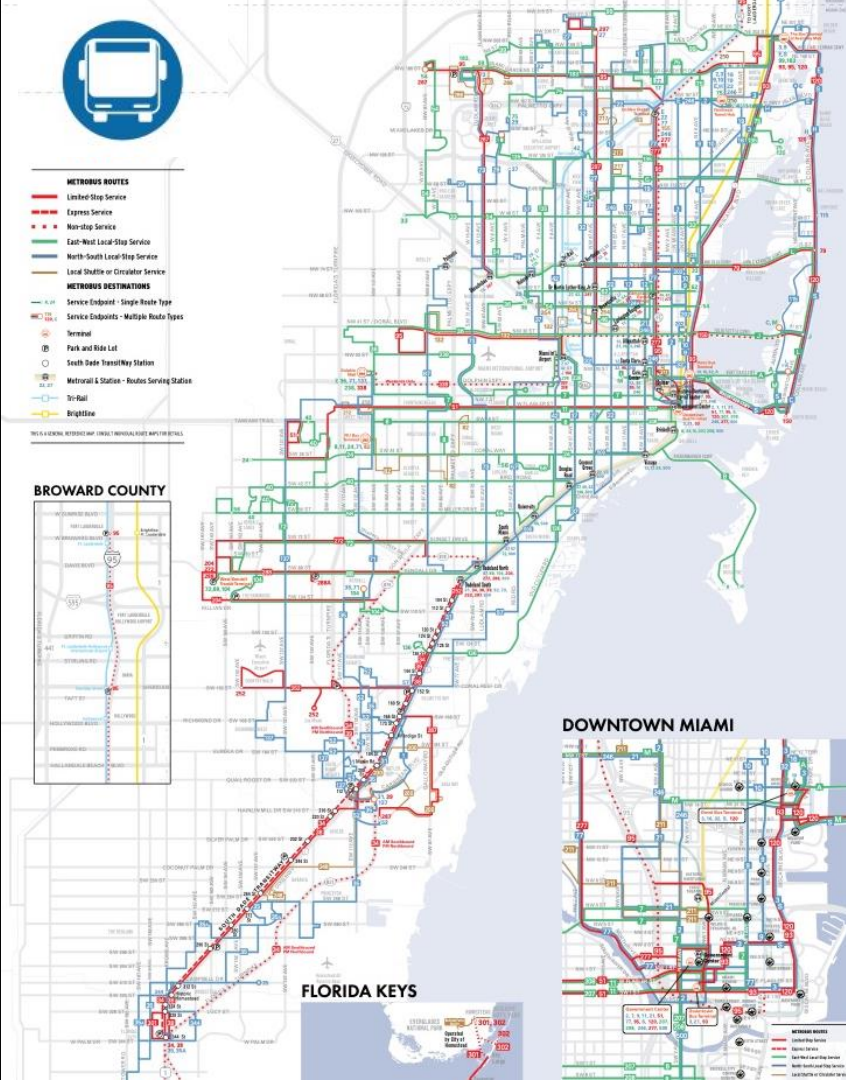
When: winter 2019/2020





SERVICE CONCEPT

- First/last mile trips from/to station for commuters
- Maximize utilization of fleet
- Partnership driven:
 - Private licensing on-demand technology
 - Private transit operator
- Shared, near door-to-door **rides** for transit users from/to Metrorail and Transitway stations within designated service areas:
 - Civic Center area
 - Dadeland area (South Miami, Dadeland North and Dadeland South stations)
 - Palmetto Bay Municipal area
 - Cutler Bay Municipal area
- Real-time ride matching and dynamically routed rides



Bus network redesign

transitTech



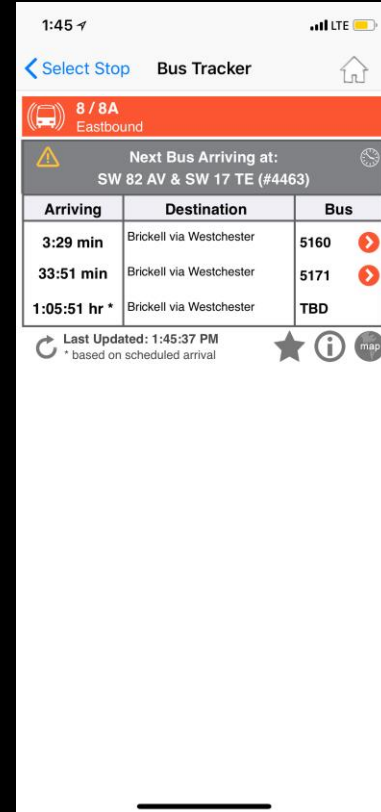
NEW FLEET TRANSIT TRACKER



REAL-TIME INFORMATION

CAD/AVL :: POLLING EVERY 30 SECONDS

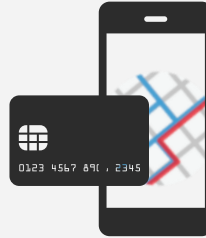
MODEMS :: POLLING EVERY 5 SECONDS





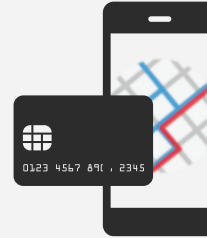
EASY Pay

County Owned and Managed mobile application with all mobility options for a seamless experience.



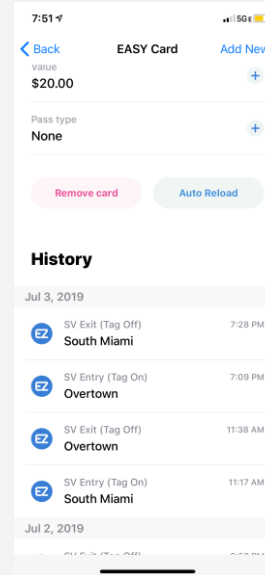
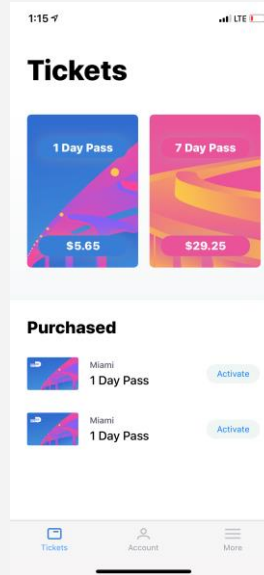
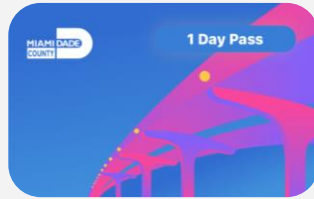
Open Payment

Allowing for other mobility providers to use mobile phones to pay for transit.



MaaS

Working with mobility aggregators to help package multiple mobility solutions in a Mobility as a Service program.



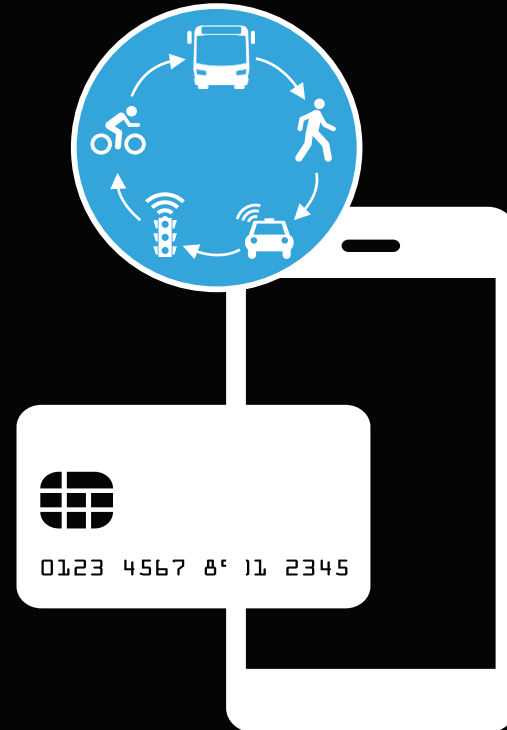
REGIONAL INTEGRATION



REGIONAL FARE PAYMENT INTEGRATION

WHAT: DTPW, BROWARD COUNTY TRANSIT, PALM BEACH TRANSIT, AND SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY (SFRTA) ARE COLLABORATING TO BRING RESIDENTS AND VISITORS AN ACCESSIBLE TRANSIT FARE SYSTEM THAT IS INTEROPERABLE.

UPCOMING INFRASTRUCTURE DEVELOPMENTS WILL ALLOW FOR **EASY CARD** AND **EASY PAY MOBILE APP**, AS WELL AS OTHER ALTERNATIVE METHODS, TO BE USED ACROSS ALL FOUR REGIONAL TRANSPORTATION SYSTEMS.





Playground for Innovation

