

MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

# Transportation Initiatives

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Director





# Department of Transportation and Public Works

**Goal: Co-existing &  
Complimenting Modes  
While Improving Mobility**



The Department of Transportation and Public Works is working with other transportation providers, both public and private, to create a full range of well synchronized mobility services within our county.



# Our Approach

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## People First

A multimodal hierarchy where **walking, bicycling**, transit, taxis, and shared-use mobility have the highest priority choice

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## Clean, Safe, Reliable and Time Effective

Make our **existing public transportation** the preferred transportation option

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## Innovative and Sustainable

Use the latest, greenest and **most efficient** technologies available

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## Social Equity and Access

Provide facilities and **mobility options** for everyone



# Department of Transportation and Public Works

- The Department of Transportation and Public Works (DTPW) was created to improve the sustainability of our transportation networks as part of a wider goal of creating more vibrant, livable, sustainable cities and improving the quality of life for our residents.
- DTPW provides clean, safe, reliable and convenient public transportation service through its four transit modes:
  - **Metrobus** – More than 90 bus routes
  - **Metrorail** – 25-mile rapid transit system
  - **Metromover** – 4.4-mile people-mover system
  - **Special Transportation Service (STS)** – door-to-door, shared-ride service for eligible customers
- The Department maintains over 7,600 paved lane miles or roadway
- It operates 26,400 street lights and monitors over 2,800 signalized intersections
- It maintains over 1,000,000 traffic signs



# Bumper-to-Bumper

On average, we spend

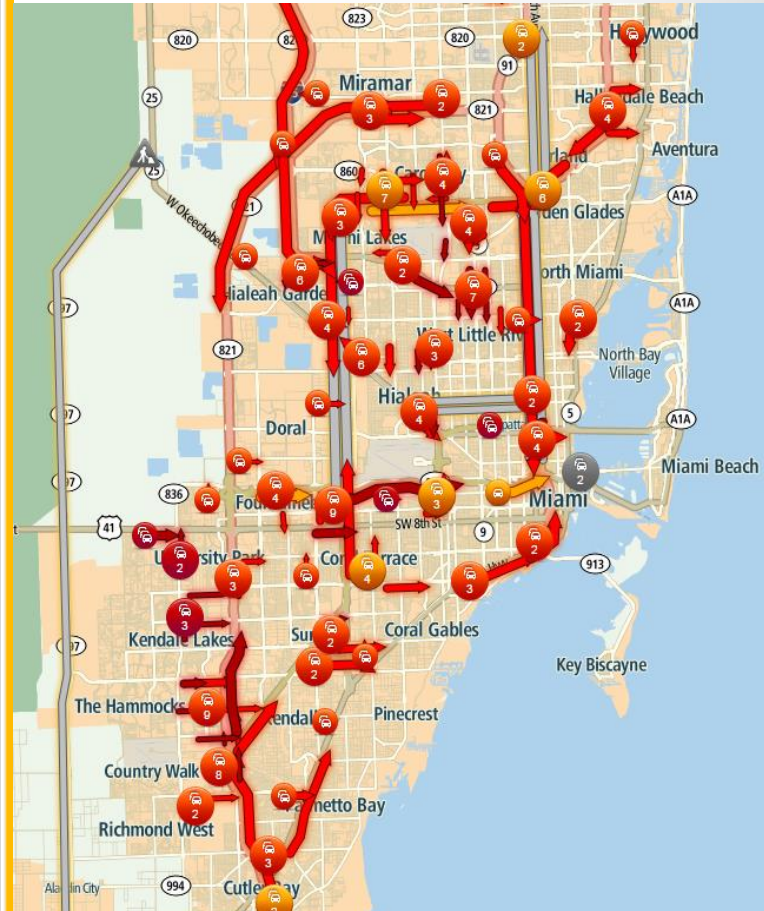
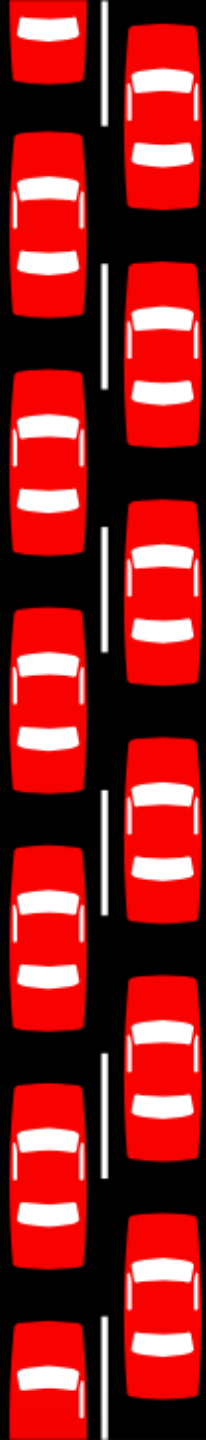
over

**40** 

hours  
stuck in traffic each year

The annual financial  
cost of congestion is

**\$121** billion





# County Wide Plan



- Clean, safe, reliable & convenient public transportation
- Improve transit reliability
- Identify appropriate mass-transit technology for corridors and prioritize based on ridership and ease of implementation
- Provide first-mile/last-mile solutions
- Implement short-term solutions for bottlenecks
- Use innovative technology to reroute traffic
- Improve synchronization of traffic signals







# Our Action Agenda

## Build a Transit Network that is Intuitive

- Provide real-time tracking
- Simplify the service
- Structure around a frequent network
- Match service to market demand
- Consolidate bus stops
- Create a network of transit only lanes
- Develop dynamically-routed transit





# Our Action Agenda

- Smart Transportation Solutions
  - Parking integration to transportation modes
  - Smart and connected infrastructure
- Multimodal Balance
  - Enhance the first and last mile
  - Integrate shared-use mobility with transit
- Streets, Signals and Signs
  - Active traffic demand management
  - Develop context responsive street types
  - Time signals for pedestrians
  - Curb space for ALL





# NEW INITIATIVES FOR A MULTIMODAL BALANCE



Building from the ***Safer Streets, Safer People*** initiative, we have begun creating a Complete Streets Manual. Complete Streets integrate people and places in the planning, design, construction, operation and maintenance of our transportation networks.

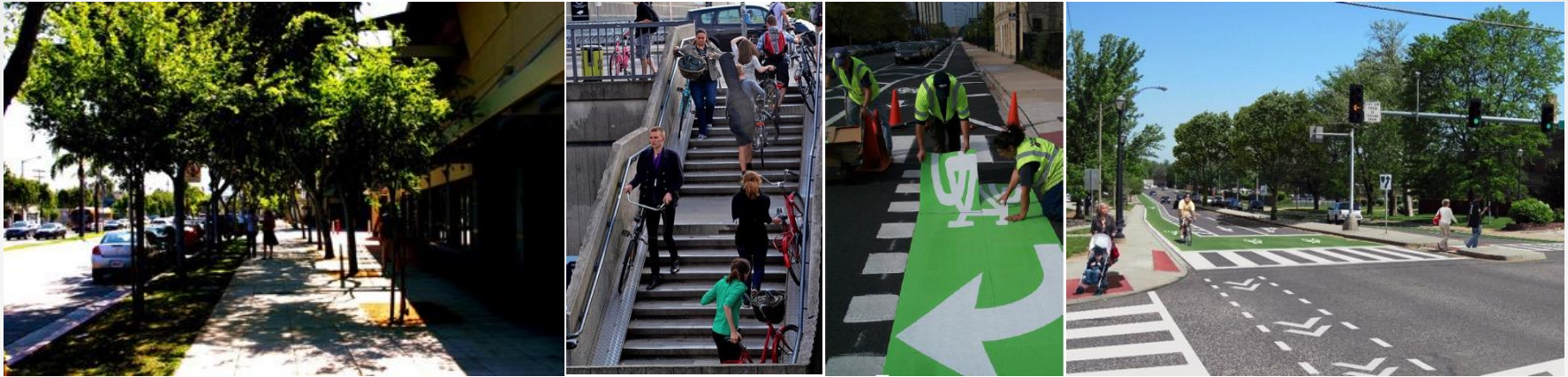


# People First Initiative



- Incorporate pedestrian safety improvements into **maintenance** projects
  - **widen crosswalks** and curb-ramps
- Add **leading pedestrian** traffic signal intervals, an exclusive signal time to provide pedestrians with an head start
- Install **in-street** pedestrian signs at busy crosswalks
- Increase **lighting** and **safety**
  - replace streetlights with smart LED system that adjusts light intensity at the presence of pedestrians and cyclists to **increase energy savings** and safety

# First- and Last-Mile Short-Term Infrastructure Improvements



- Implement **sidewalk canopies**
- Install pedestrian-scale **way-finding** signs and **markings**
- Build buffered and **protected** bike lanes
- Provide **bike-rails** at Metrorail stairways
- Provide covered and secured bicycle units
- Improve **pedestrian** and **bicycle paths** leading to transit facilities
- Install additional benches and bus shelters



# Complete Streets Demonstration Projects



The goal is to transform our **streets** into **public spaces** where people can walk, bicycle, take transit and drive **safely**.

- Conduct **Complete Streets** demonstration projects to **test long-term vision** before making substantial financial and political commitments
- Provide **low-cost** and **low-risk** option to experiment with new concepts and improvements
  - add bus lanes
  - install crosswalk markings
  - add bike lanes, markings and parking units
  - create public plazas in underutilized areas
  - implement temporary street closures
- Increase public awareness, **understanding** and involvement
- Gather **feedback** from community to make sure their needs are met
- Initial demonstration project will be conducted in Downtown Miami at SW/SE 1 Street between SW 2 Avenue and Biscayne Boulevard



# Better roads and improved safety



The Department recently completed roadway and bike lane improvements on Crandon Boulevard in Key Biscayne.

The project improved the surface conditions of the road and enhanced Crandon Boulevard's existing bicycle lane.

The project consisted of milling, resurfacing, new signage, pavement markings and green paint to delineate the bike lane.

Cyclists riding along Crandon Boulevard will immediately notice the visual and auditory enhancements that improve cyclists' safety.





# Premium Transit Corridors

- We have identified various corridors for application of potential premium transit service.
- In collaboration with the Florida Department of Transportation, a preliminary screening of the corridor was performed.
- The priority corridors were selected to cover the extent of the county, addressing the need for mobility from the Central Downtown Miami to Miami Beach; along the Northeast Corridor and Aventura areas; the sub-urban sections of the South Dade through both the South Miami-Dade Busway and Kendall Drive; heavily traveled segment by the Miami International Airport along SR 836; and along NW 27th Avenue, a major arterial linking Coral Gables to Broward County.
- Our focus is to look at each one based on their merit. Looking at the ones with higher projected ridership first.







# The SMART Plan

On April 21, 2016, the Miami-Dade MPO Governing Board officially adopted and endorsed the proposed **Strategic Miami Area Rapid Transit (SMART) Plan**.

The **SMART Plan** intends to advance six of the PTP's rapid transit corridors, along with a network system of Bus Express Rapid Transit (BERT) service, in order to implement mass transit projects in Miami-Dade County.





Miami-Dade Department of Transportation and Public Works



# **Thank you for your interest in the Miami-Dade County's Transportation Initiatives**

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Department of Transportation and Public Works**

