



# Department of Transportation and Public Works (DTPW)

## South Corridor Rapid Transit Project Town of Cutler Bay

Wednesday, July 19, 2017



#MiamiSMARTPlan



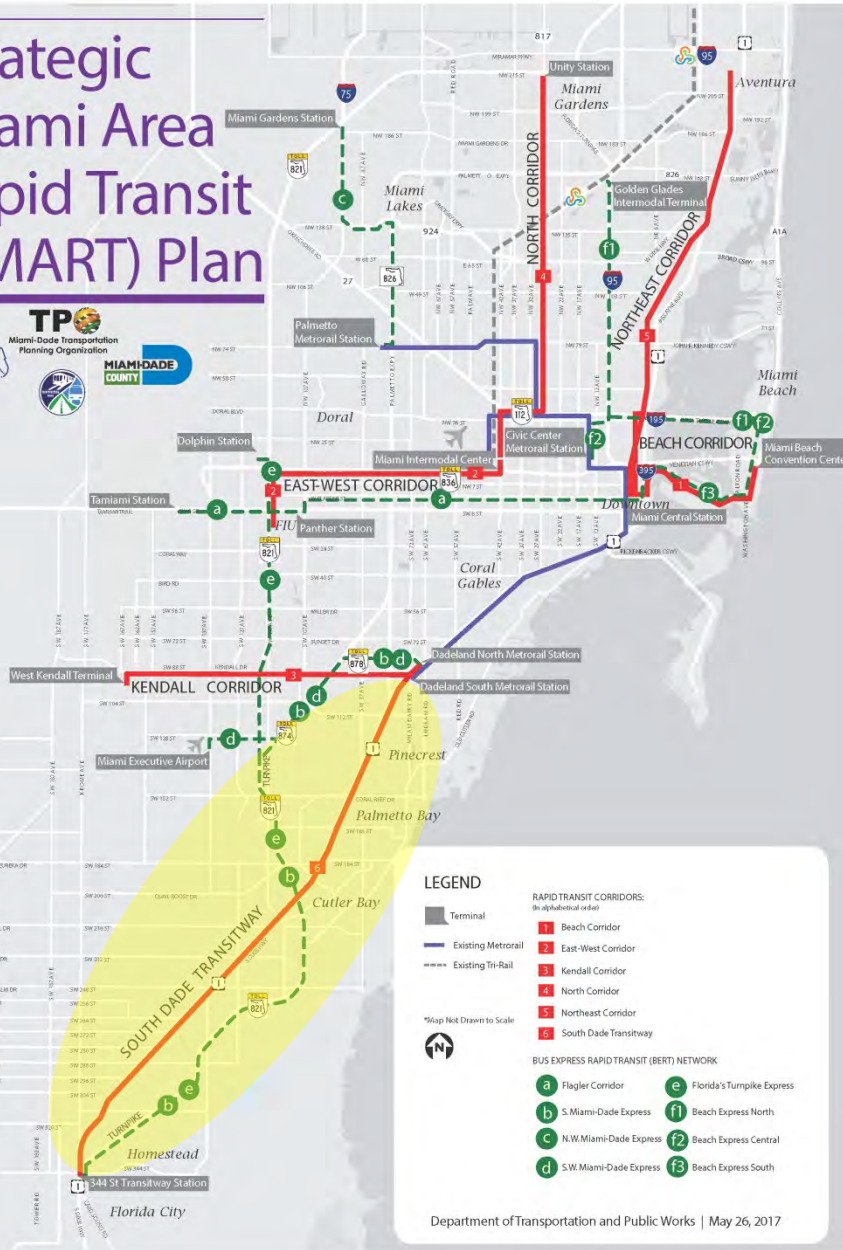
[www.miamismartplan.com](http://www.miamismartplan.com)

# Meeting Overview

- Miami-Dade County SMART Plan
- South Corridor
- Project History and Timeline
- South Corridor History
- Transitway Existing Conditions
- Study Elements
- Project Scope and Purpose
- Existing Transit Facilities
- Project Schedule
- Study Objectives
- Technologies
- Public Involvement
- Locally Preferred Alternative

# Miami-Dade County SMART Plan

## Strategic Miami Area Rapid Transit (SMART) Plan



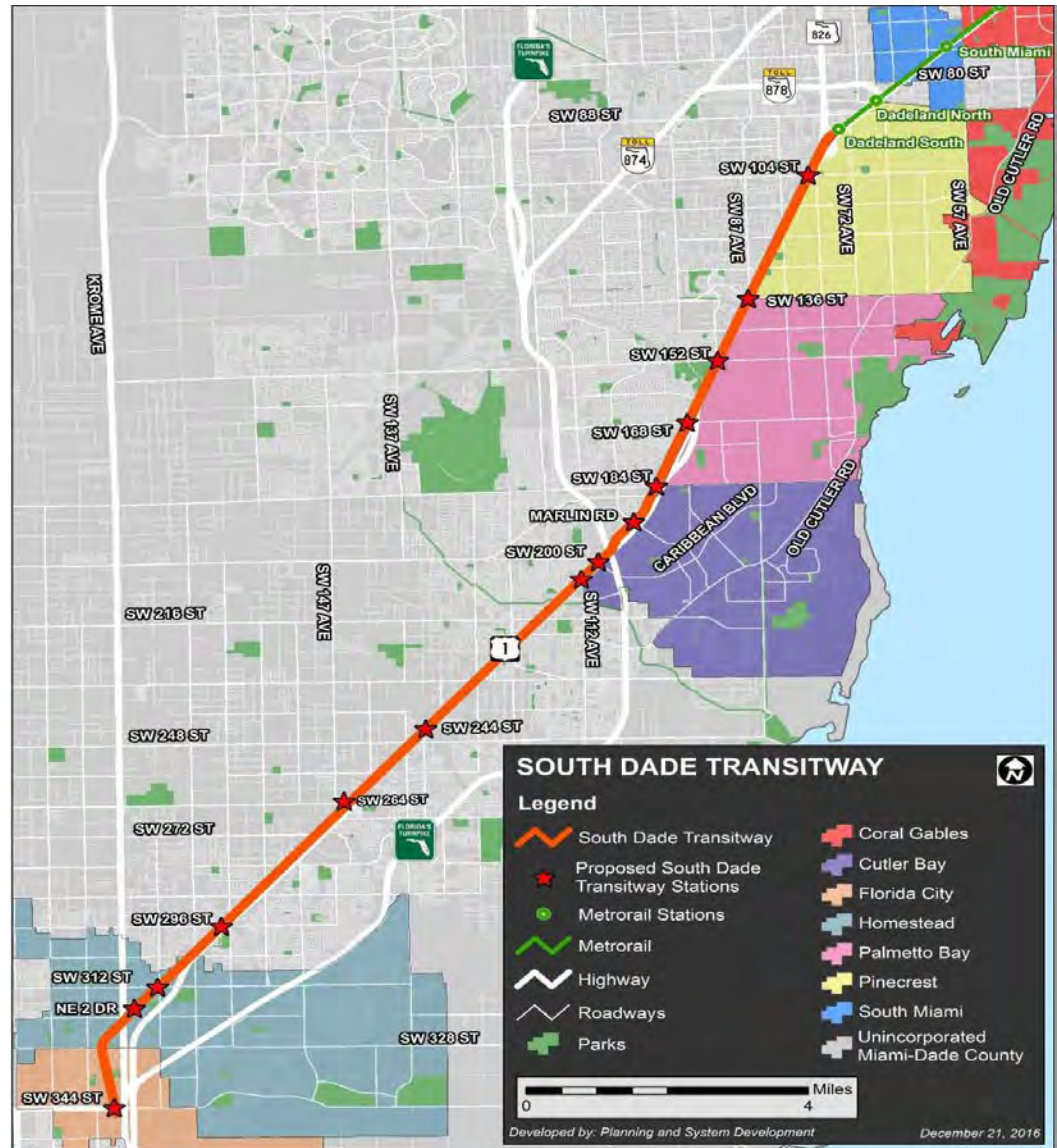
## Six Corridors:

- Beach Corridor
- East-West Corridor
- Kendall Corridor
- North Corridor
- Northeast Corridor
- **South Corridor**

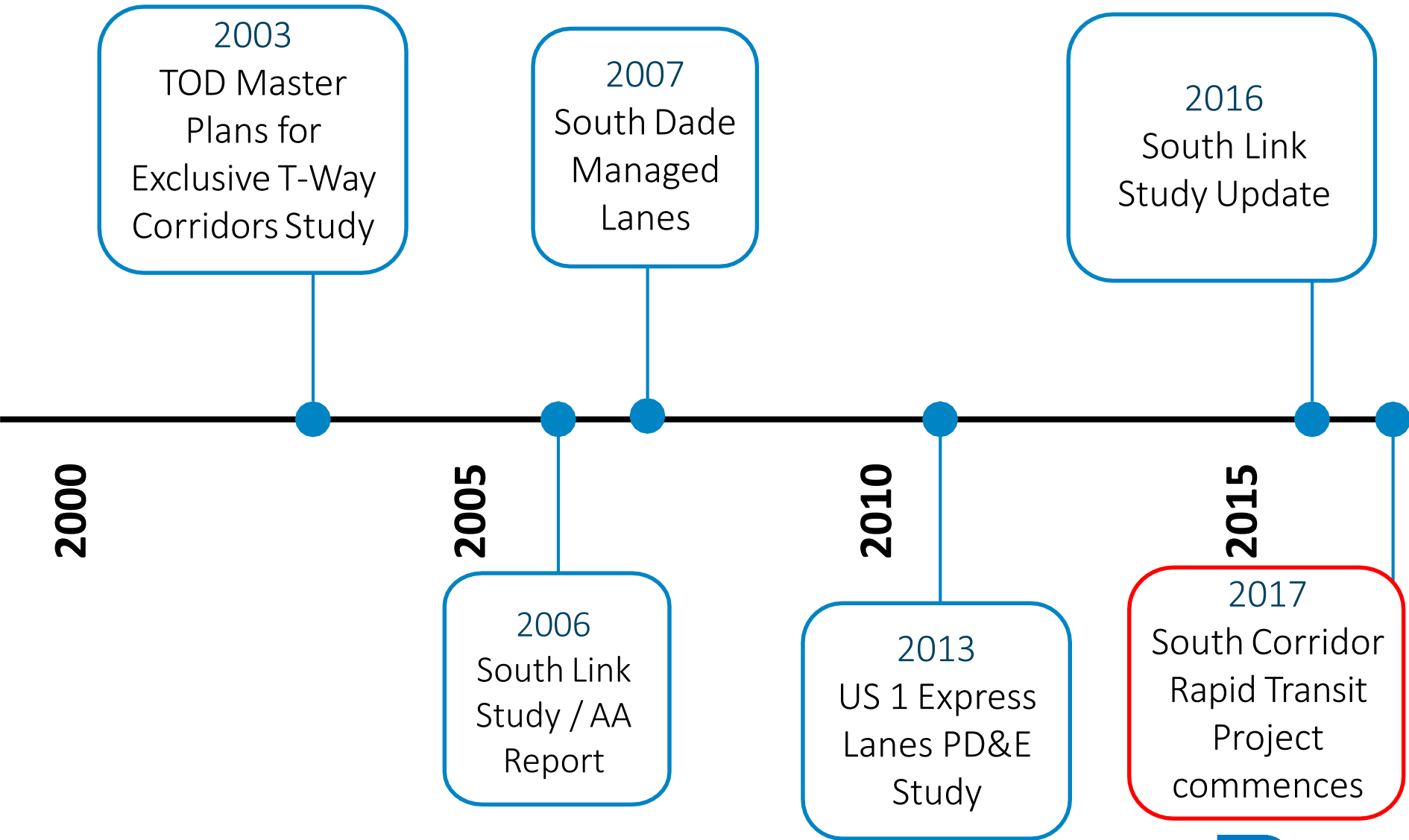


# South Corridor

- Existing South Dade Transitway: Connects Dadeland South Metrorail Station with SW 344<sup>th</sup> Street in Florida City (approximately 20 miles)
- Corridor Cities
  - Village of Pinecrest
  - Village of Palmetto Bay
  - Town of Cutler Bay
  - City of Homestead
  - City of Florida City

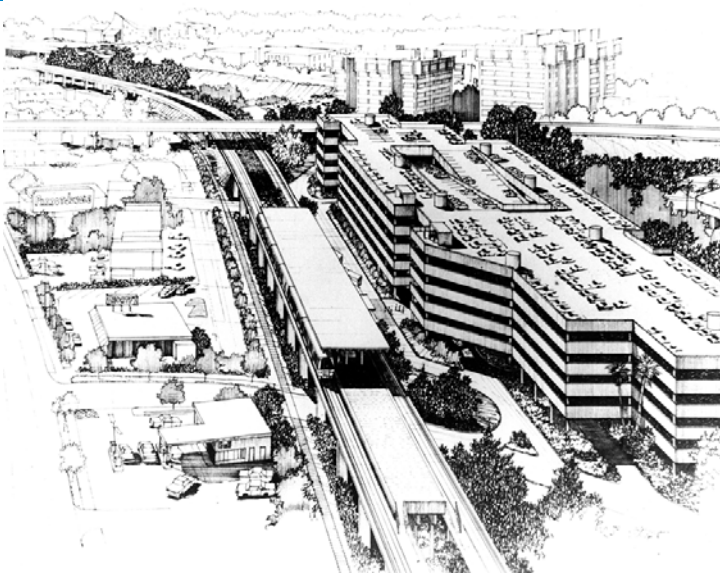


# Project History Timeline



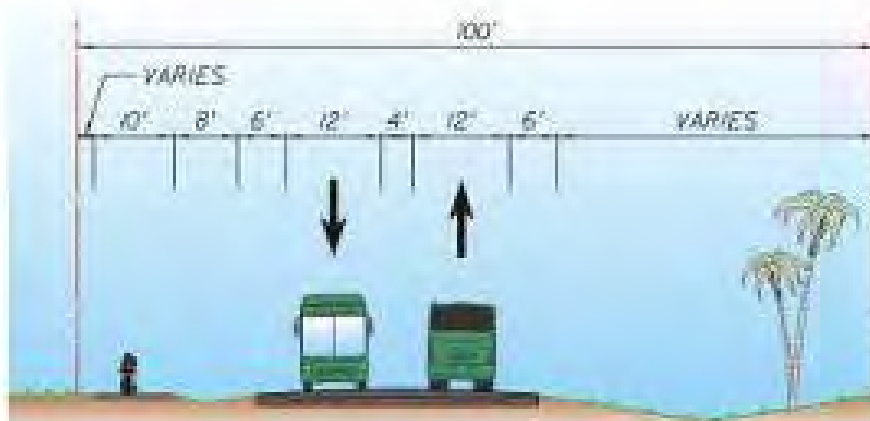


# South Corridor History

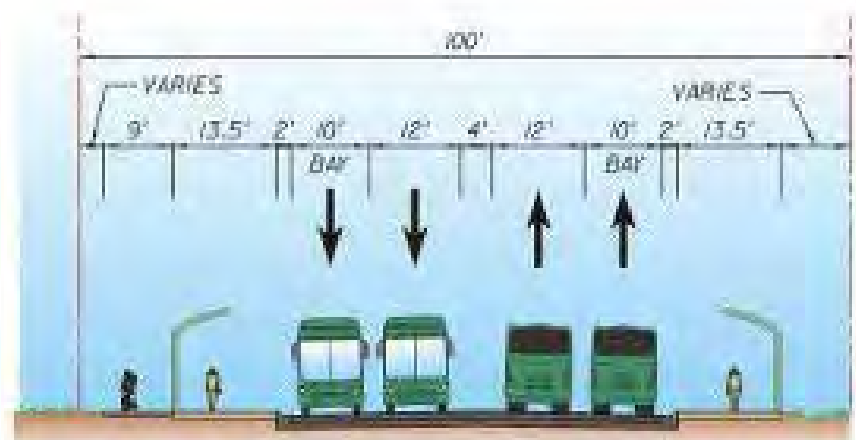


# Transitway Existing Conditions

- Mostly 100-foot wide right-of-way for its entire length
- Designed for transit buses and emergency/ security vehicles
- One 12-foot wide bus lane per direction with 29 stations
- 8-10 foot wide bicycle/pedestrian path along the west side, separated from bus lanes by a swale
- Adjacent to US-1



Typical Roadway Section



Typical Station Section

# Study Elements



## Public Involvement

Continuous outreach and coordination with community and stakeholders



## Data Collection

Review of existing conditions



## Engineering Analysis

Develop and evaluate alternatives that meet the goals of the project



## Environmental Evaluations

Identify potential impacts to social, natural, and physical environments



# Project Scope and Project Purpose

## Project Scope

- Document Existing Conditions
- Develop Transit Mode Alternatives using Existing Transitway Alignment
- Station Stop Locations and Transit Terminals
- Multimodal Connections

## Project Purpose

- Improve Mobility
- Promote Connectivity
- Enhance Accessibility
- Stimulate Economic Development

# Existing Transit Facilities



# Project Schedule





# Study Objectives: Evaluate Transit Alternatives

- At-Grade Metrorail Extension
- At-Grade BRT using the existing Transitway
- At-Grade Light Rail Transit
- Connected and Autonomous Vehicle (CAV) alternative

All alternatives will consider grade separations at major intersections



# Review of Transit Technologies

## Metrorail Extension



## Bus Rapid Transit (BRT)



## Light Rail Transit (LRT)



## Connected and Autonomous Vehicles (CAV)



# Examples: At-Grade Rail Rapid Transit

## Chicago CTA Brown Line



## Boston MBTA Blue Line





# Examples: At-Grade Bus Rapid Transit



Los Angeles County Metro  
Orange Line  
(Source: Metro.net)

Cleveland  
GCRTA  
HealthLine



# Examples: At-Grade Light Rail Rapid Transit



Portland, OR Tri-Met (Source: Dan Haneckow, Flickr)



# Connected and Autonomous Vehicle Technology



Source: CityMobile2, National Center for Transit Research



Source: EasyMile, National Center for Transit Research



# Public Involvement

- Elected Officials and Agency Kick-Off Meeting
- Public Kick-Off Meeting
  - Outreach
    - Property Owner Notices
    - Advertisements (Miami Herald and El Nuevo Herald)
    - Meeting Notice Distribution
      - Metrorail Station
      - Park and Ride Lots
      - Public Facilities (18 locations)
- DTPW Social Media and Municipal Networks
- Unscheduled Meetings
- Fact Sheets (English and Spanish)
- Corridor Workshops - Fall 2017
- Project Website: [www.miamismartplan.com](http://www.miamismartplan.com)

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# Selecting the Locally Preferred Alternative (LPA)



## Purpose and Need

- Identify the need for transit investment
- Determine project goals and objectives
- Define evaluation criteria

## Tier 1 Definition and Evaluation: Qualitative

- Identify the universe of alternatives
- Qualitative evaluation to determine feasibility

## Tier 2 Definition and Evaluation: Quantitative

- Define the remaining alternatives in detail:
  - Develop operating plan
  - Generate ridership forecast
  - Estimate capital and O&M costs
- Evaluate the alternatives in detail

## Selection of Locally Preferred Alternative (LPA)

## Q&A



# Project Team

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