# BEACH CORRIDOR MIAMI-DADE COUNTY

#### Strategic Miami Area Rapid Transit (SMART) Plan

Industry Forum Request For Information (RFI-00920)

July 30, 2018







#### SMART Plan Industry Forum Overview

- Miami-Dade County Department of Transportation and Public Works (DTPW)
- SMART Plan Request For Information (RFI) and Industry Forum Objective
- SMART Plan Available County Funding
- SMART Plan Project Overview
- Additional Project Information Resources
- Next Steps
- Q&A

### Miami-Dade County Department of Transportation and Public Works

• **GOAL**: Improve sustainability of our transportation networks as part of a wider goal of creating more vibrant, livable, sustainable and safe cities and improving the quality of life for our residents.



**Transit Systems** 

 Operates the 1st largest public transportation system in Florida and 14<sup>th</sup> in the U.S.



- Provide clean, safe, reliable and convenient public transportation service through transit:
  - Metrobus 95 bus routes; over 58 million annual boardings
  - Metrorail 25-mile dual-track, elevated rapid transit system; approx. 20 million annual boardings



 Metromover – 4.4-mile people-mover system; approx. 9.5 million annual boardings



- Special Transportation Service (STS) door-to-door, accessible, shared-ride service for eligible customers; over 1.6 million annual boardings
- Maintains over 7,600 paved lane miles of roadway, 2,800 traffic signals, and 1 million traffic signs



**METRORAIL** 



**METROBUS** 



**METROMOVER** 

#### Metrorail System







#### AirportLink





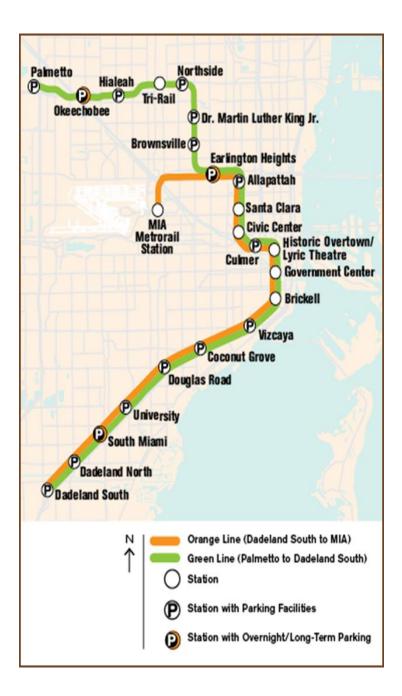
- Opened for Revenue Service July 28, 2012
- 2.4 mile extension from Earlington Heights station to Miami International Airport (MIA) station at the Miami Intermodal Center (MIC)





#### Metrorail System

- 23 station, elevated rapid transit system
- Approximately one mile apart
- Easily accessible



#### Metromover System







#### Metromover System

Automated People Mover

21 Stations

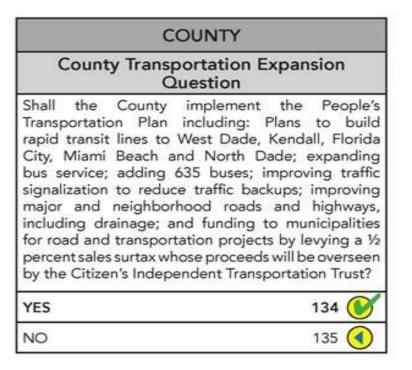


## Objectives of the SMART Plan Request For Information(RFI) and Industry Forum

Gain insight from private sector in order to:

- Accelerate the delivery of the corridor projects
- Attract private investment
- Implement projects via Alternative Delivery methods such as DB, DBF, or DBFOM
- Utilize private financing that leverages federal, state and county funding

• In 2002, Miami-Dade County voters approved a one-half percent local surtax to improve, among other things, rapid transit corridors within the county through the People's Transportation Plan (PTP).

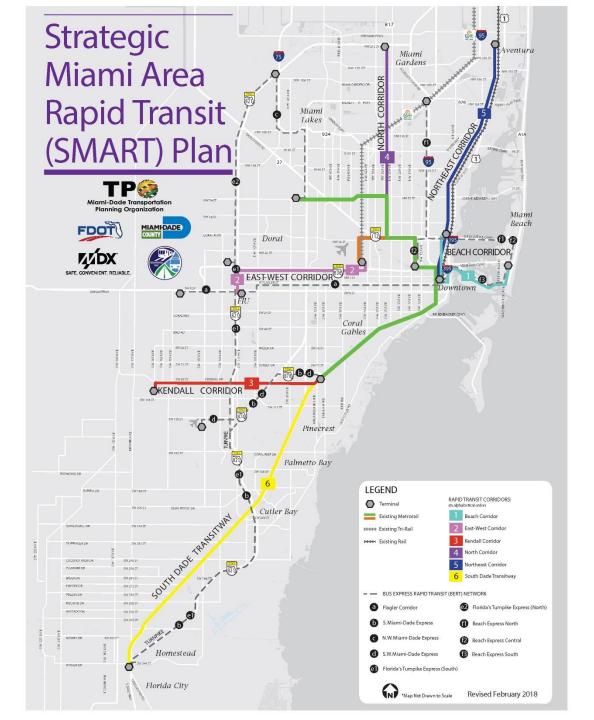


• On February 16, 2016, the TPO Governing Board approved a policy to set as "highest priority" the advancement of rapid transit corridors and transit supportive projects for the county.

 On April 21, 2016, the Miami-Dade TPO Governing Board officially adopted and endorsed the proposed Strategic Miami Area Rapid Transit (SMART) Plan of six rapid transit corridors, along with a network system of Bus Express Rapid Transit (BERT) service.

• On October 19, 2017 the TPO prioritized the South and North Corridors to be implemented first.

#### SMART Plan Overview - Map



#### SMART Plan Project Overview

In 2016 the Project Development & Environment (PD&E) Studies began on the Six Rapid Transit Corridors

Corridor Name	Corridor Length (miles)	NEPA Lead Agency
South Dade Transitway/South Corridor	20	DTPW
North Corridor (NW 27 <sup>th</sup> Avenue)	12	FDOT - 6
Beach Corridor	9.7	DTPW
East-West Corridor	11	DTPW
Kendall Corridor	10	FDOT - 6
Northeast Corridor (Tri-Rail Coastal Link)	13.5	FDOT - 4

#### SMART Plan Available County Funding

 Three Major Local Funding Sources for the SMART Plan

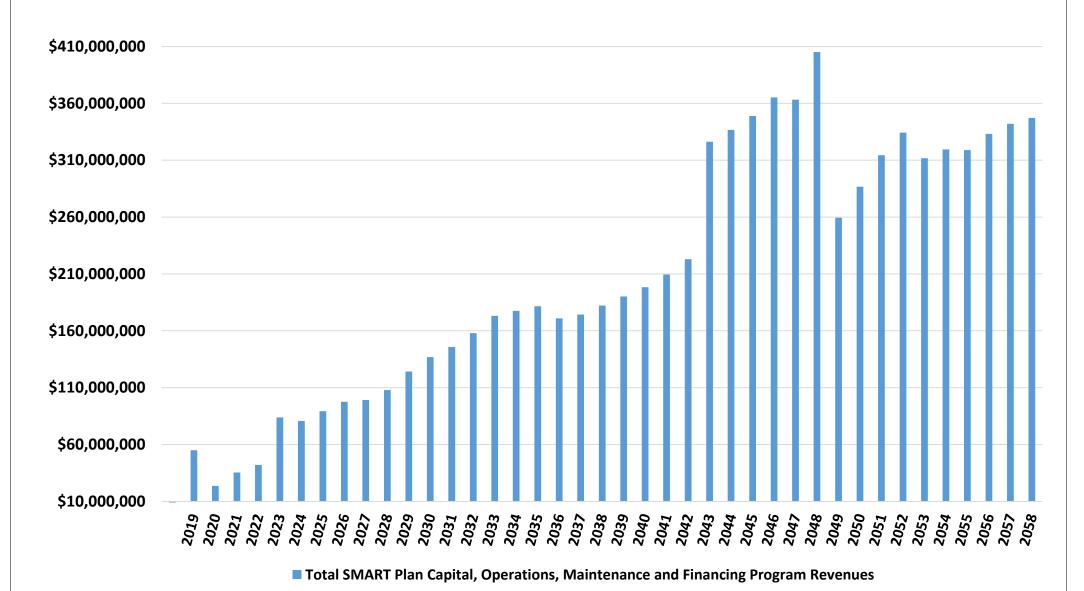
- ½ cent Surtax
- Transportation Infrastructure Improvement District (TIID) revenue
- Joint Development Revenues

#### SMART Plan Available County Funding

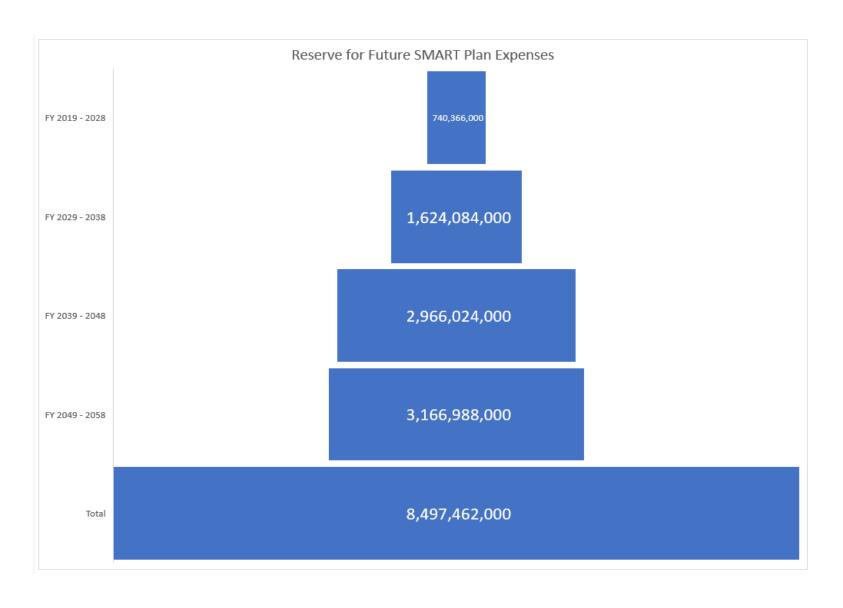
Total available local funding through 2058:

- \$8.5 billion in Year of Expenditure (YOE)
- \$2.7 billion Net Present Value (using 5% discount rate)



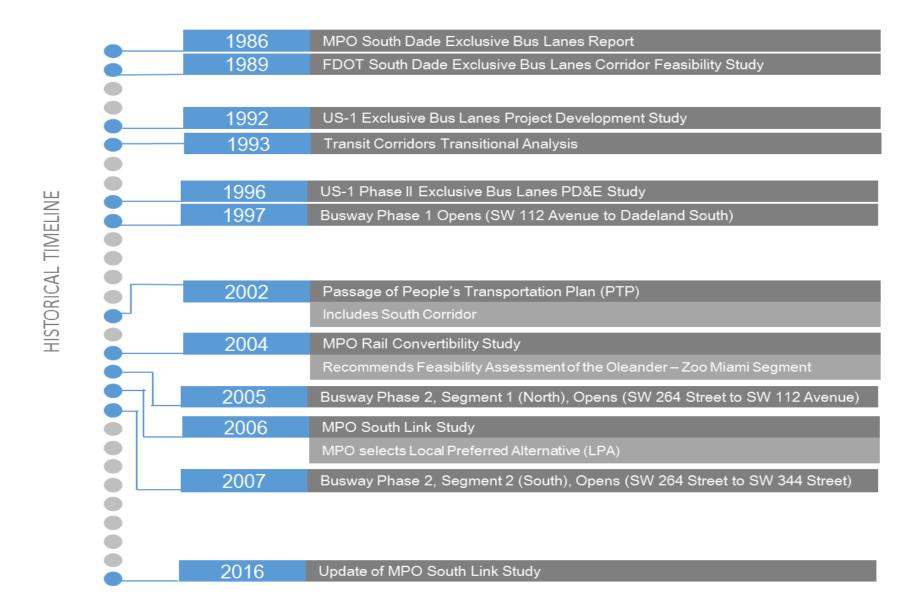


#### Reserve for Future SMART Plan Expenses



- Study Limits: Florida City to Dadeland South Metrorail station
- Length: 20 Miles
- Unique Markets: Colleges, hospitals, and major malls
- Connection to existing Metrorail system





#### **Mode Alternatives**



## Dadeland South Station (North Terminus of South Corridor)





Dadeland South Bus Terminal Station

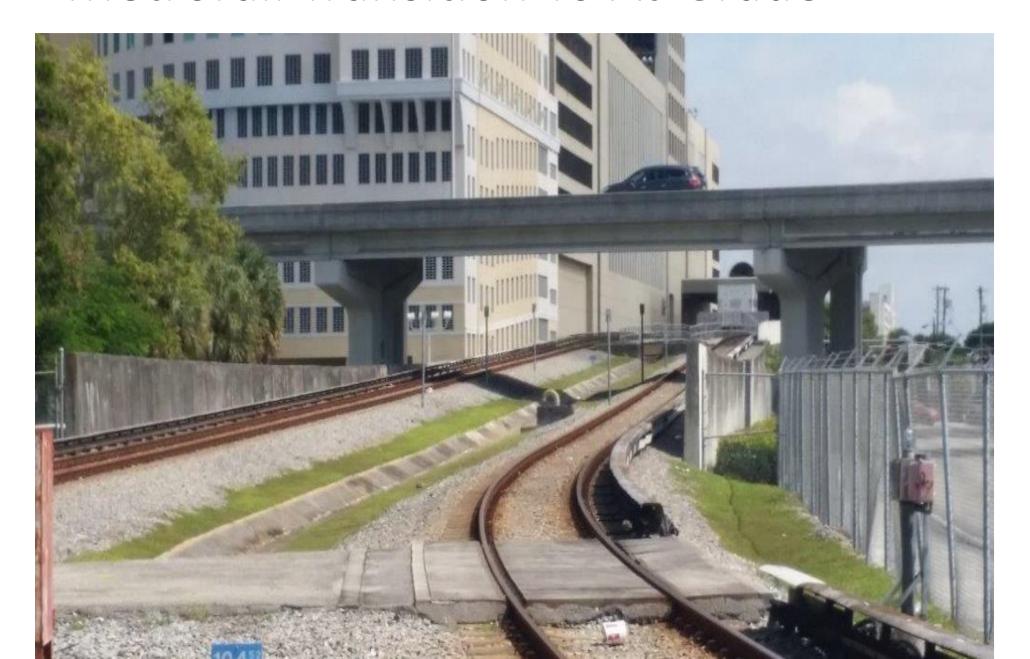


**Transitway Typical Section** 



**US-1** Runs Parallel To Transitway

#### Metrorail Transition To At-Grade



#### Recommended Alternative



#### Why BUS RAPID TRANSIT?

- Same or better travel times than Rail (with crossing gates)
- Right sized solution for projected ridership
- **Greater Flexibility than Rail (vehicles can go off corridor)**
- **Federal & State Funding Opportunity**
- Helps Corridor Increase Ridership towards future rail
- Implements elements needed for rail
- **Iconic Stations that encourage Economic Development** and Transit Oriented Development (TOD)
- Affordable (20% of the capital cost of Rail and 25% of the 0&M)
- **Begin Operation in 3 to 4 Years**
- Minimal impact during construction

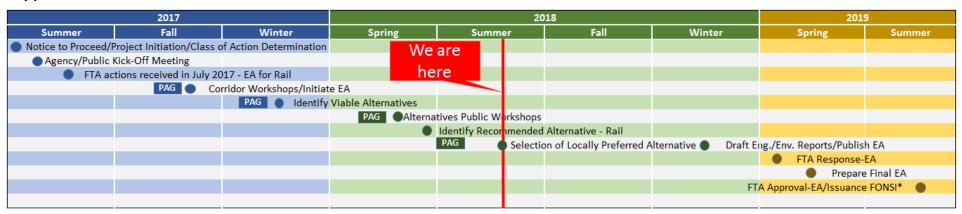


#MiamiSMARTPlan

#### NEPA Study Schedule: Rail vs. Bus Rapid Transit

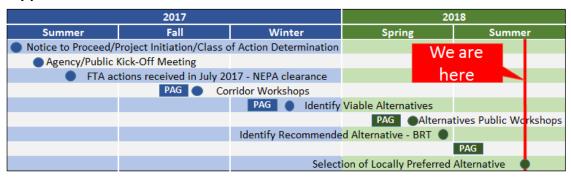


#### Typical Schedule Rail<sup>1</sup>



<sup>1</sup>DTPW has received EA Class of Action determination for Rail (Begin HRT service in approximately 8 to 10 years)

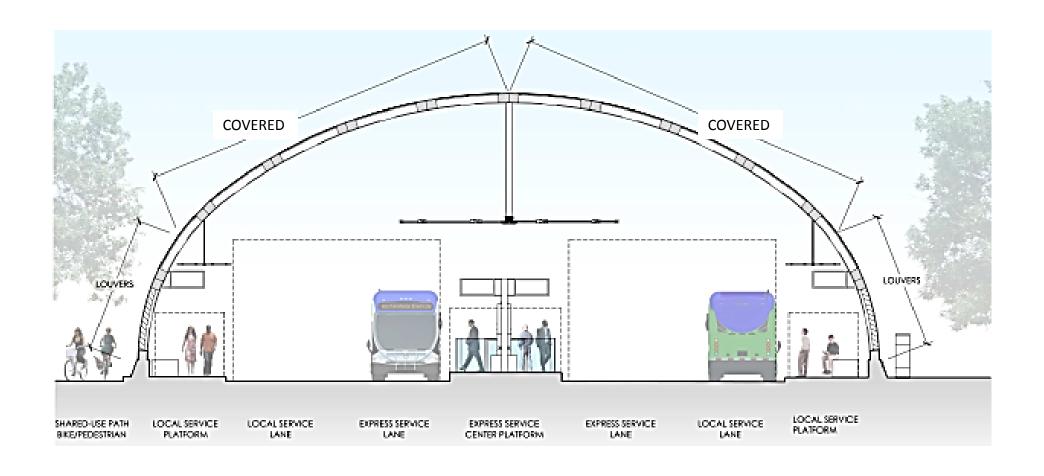
#### Typical Schedule BRT<sup>2</sup>



<sup>2</sup>DTPW has received NEPA clearance from FTA for BRT (Begin BRT service in approximately 3 to 4 years)

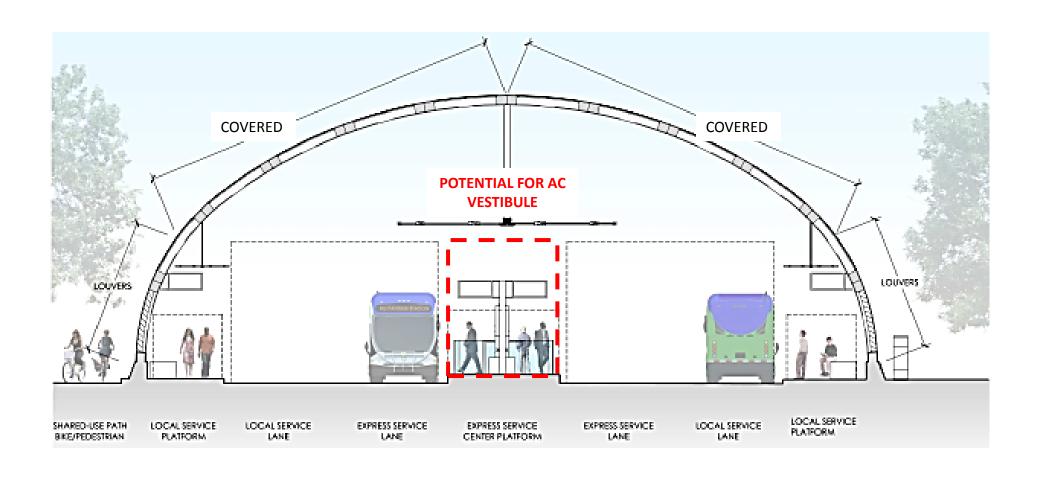
#### Typical Alternatives - BRT





#### Typical Alternatives - BRT

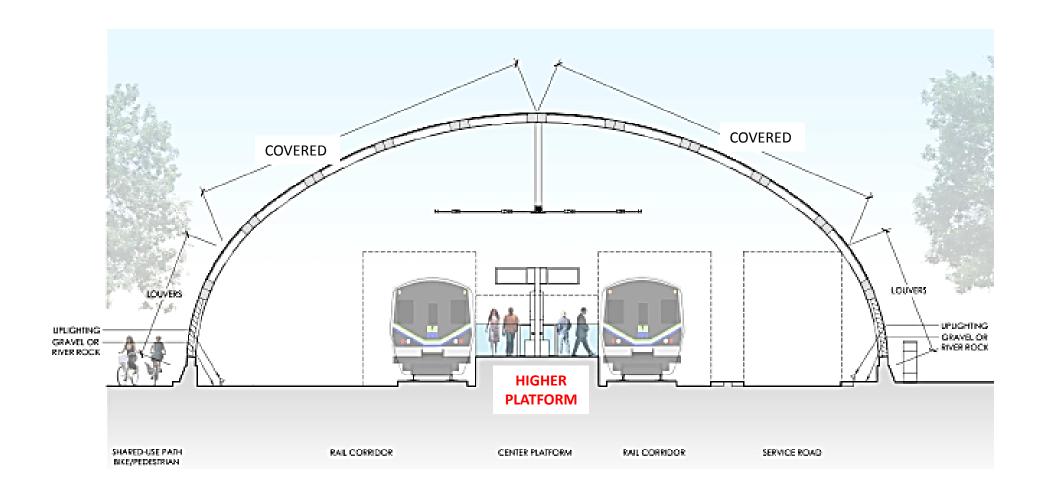




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#### Typical Alternatives - HRT

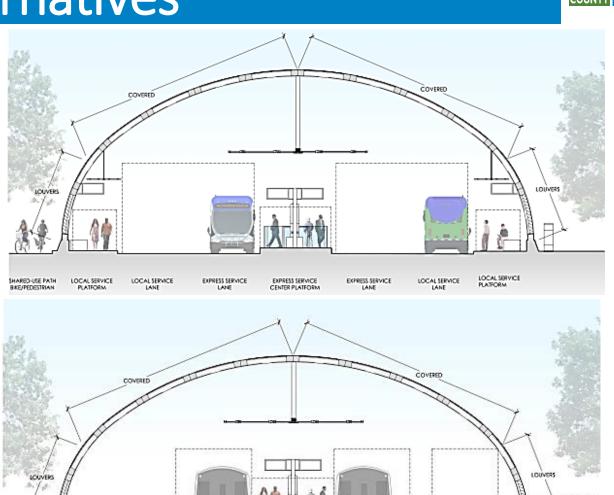




#### **Typical Alternatives**

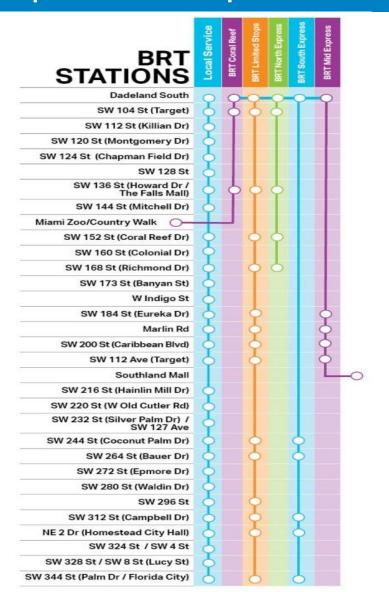


When converting to rail, stations would be lengthened and platform will be raised



#### Proposed Operation Plans







#### Preliminary Station Renderings (BRT)





#### Preliminary Station Renderings (BRT)





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#### Preliminary Station Renderings (HRT)





#### Preliminary Station Renderings (BRT)





#### Preliminary Station Renderings (HRT)





#### SMART Plan Cost/Funding Available



Mode	Capital Cost (\$2017 Million)	Yearly O&M (Million)*	O&M Pro Forma Impact Through 2057**	New Transit Ridership by 2040
Bus Rapid Transit	\$243	\$15	\$865M	10,000 to 11,000
H Rail Transit (at- grade)	\$1,332	\$67	\$4.2B	16,000 to 18,000

<sup>\*</sup> O&M costs do not include circulator/feeder buses that would be required for HRT to serve all original stations

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<sup>\*\*</sup> Net of Fare Box Revenue

#### BRT and HRT use of Conceptual Financial Plan Funds



Rapid Transit Corridor Conceptual Financial Plan funding available for Capital, Financing, O&M and Replacement over 40 years

\$8.457 billion

<b>Project Capital Costs</b>	BRT		HRT	
Capital Costs 2017\$	243,000,000		1,332,000,000	
Funding Assumptions YOE\$	283,000,000	100%	1,556,000,000	100%
1. FTA Grant	100,000,000	35%	778,000,000	50%
2. FDOT	92,000,000	33%	389,000,000	25%
3. PTP Funds	92,000,000	33%	389,000,000	25%
	BRT		HRT	
Annual Operating and Maintenance Cost \$2017	15,000,000		67,000,000	
Operating and Maintenance Costs, through 2058 in YOE\$	1,051,000,000		4,502,000,000	

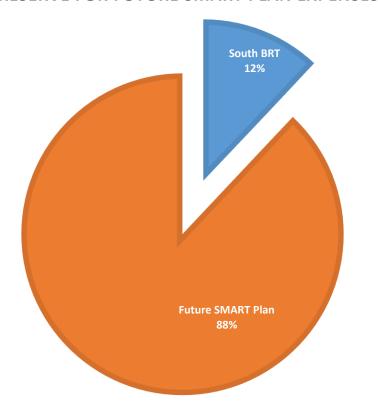
#### BRT and HRT use of Conceptual Financial Plan Funds



	BRT	HRT
Replacement Costs	58,000,000	1,263,000,000
	BRT	HRT
Plan Fund Usage	92,000,000	739,000,000
Capital Cost including	, ,	
financing		
	BRT	HRT
Fund usage through 2058	1,201,000,000	6,504,000,000
Farebox Revenues	(186,000,000)	(274,000,000)
Fund Utilization net of Farebox	1,015,000,000	6,230,000,000
Percentage Utilization of Funds	12.0%	73.7%
Remaining for SMART Plan	7,442,000,000	2,227,000,000

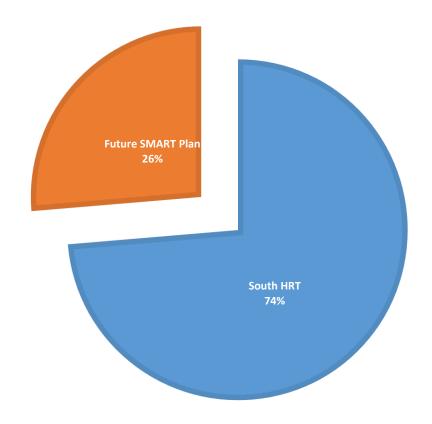
#### Reserve for Future SMART Plan Expenses

#### **RESERVE FOR FUTURE SMART PLAN EXPENSES**



#### Reserve for Future Smart Plan Expenses

#### **RESERVE FOR FUTURE SMART PLAN EXPENSES**



#### Recommended Alternative



#### Why BUS RAPID TRANSIT?

- Same or better travel times than Rail (with crossing gates)
- Right sized solution for projected ridership
- Greater Flexibility than Rail (vehicles can go off corridor)
- Federal & State Funding Opportunity
- Helps Corridor Increase Ridership towards future rail
- Implements elements needed for rail
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- Begin Operation in 3 to 4 Years
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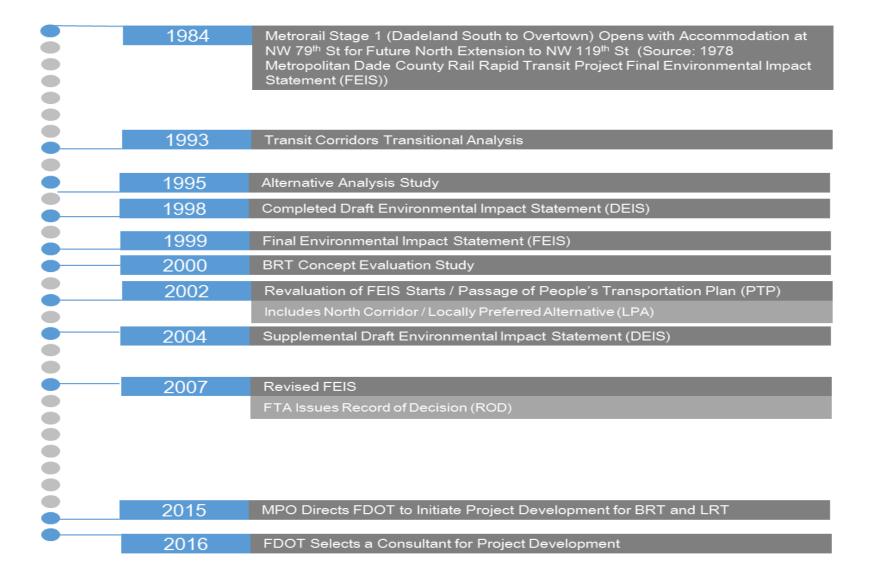


#### South Dade Transitway/South Corridor

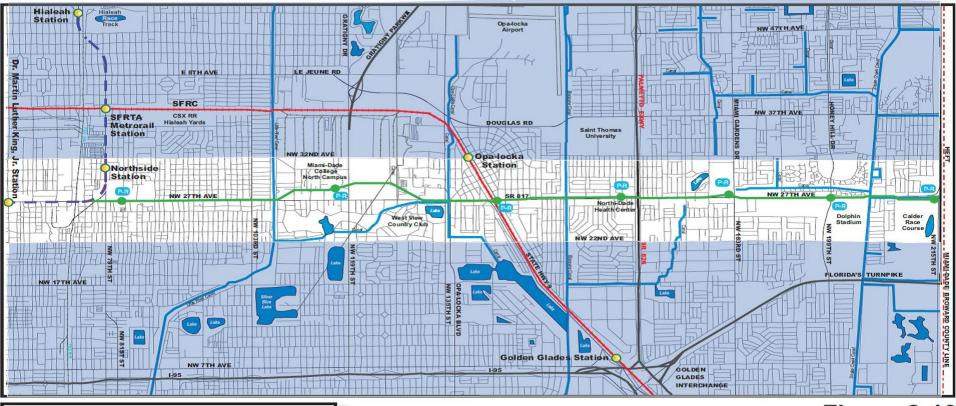
- Project Schedule
  - Summer 2017 FTA Class of Action Determination
    - BRT: NEPA Cleared
    - Rail: Environmental Assessment (EA)
  - Summer 2018 Identify Recommended Alternative
  - Late August 2018 TPO Selection of Locally Preferred Alternative (LPA)
  - 4<sup>th</sup> Quarter 2019 FTA FONSI (If rail is selected as LPA)

- Study Limits:
  - SR 112/Airport Expressway from the Miami Intermodal Center (MIC) to NW 38<sup>th</sup> Street
  - SR 817/NW 27<sup>th</sup> Avenue from NW 38<sup>th</sup> Street to SR 852/NW 215<sup>th</sup> Street
- Length: 12 miles
- Unique Markets: Intercounty, colleges, special event venues





#### Miami North Corridor FEIS 2007



LEGEND

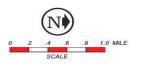
O Station Corridor

- Stage 1 Metrorail

Build Alternative Alignment
Build Alternative Station
Park and Ride

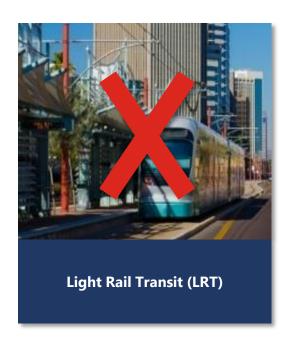


Figure 2-10 Build Alternative



#### **Mode Alternatives**







# Dr. Martin Luther King, Jr. Metrorail Station NW 27 Avenue & NW 62 Street



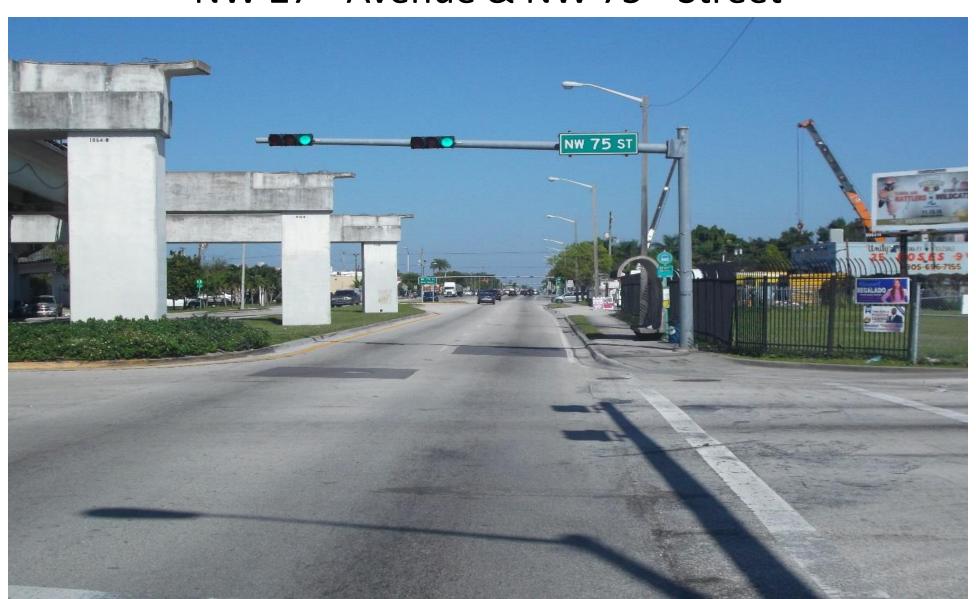
# Dr. Martin Luther King, Jr. Metrorail Station



# Dr. Martin Luther King, Jr. Metrorail Station Guideway Looking North



#### North Corridor NW 27<sup>th</sup> Avenue & NW 75<sup>th</sup> Street



#### North Corridor Existing Typical Sections For NW 27<sup>th</sup> Avenue



Four-lane section from NW 41st to NW 79th Streets

#### North Corridor Existing Typical Sections For NW 27th Avenue

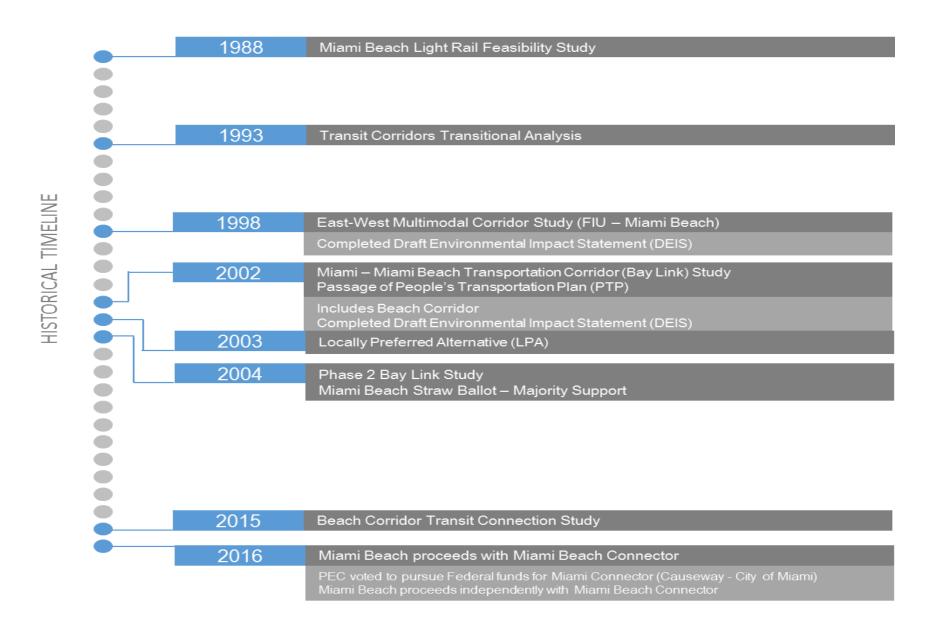


Six-lane section NW 103<sup>rd</sup> to NW 215<sup>th</sup> Streets

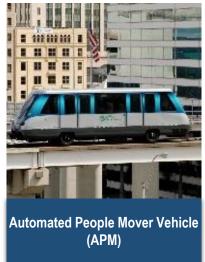
- Project Milestone Schedule
  - 4<sup>th</sup> Quarter 2018 Identify Recommended Alternative
  - 4<sup>th</sup> Quarter 2018 TPO Selection of Locally Preferred Alternative (LPA)
  - 1<sup>st</sup> Quarter 2019 FTA Class of Action Determination
  - 3<sup>rd</sup> Quarter 2019 FTA FONSI

- Study Limits: Miami Design District to Miami Beach Convention Center
- Length: 9.7 Miles
- Unique Markets: Hotels, colleges, major employment centers, and special event venues
- Connection to existing Metrorail, Metromover, and Brightline





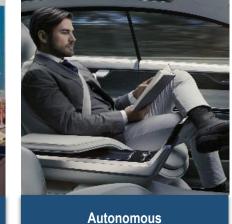
#### **Mode Alternatives**



**Heavy Rail Transit** 

(HRT)













Vehicle



**Aerial Cable Transit (ACT)** 

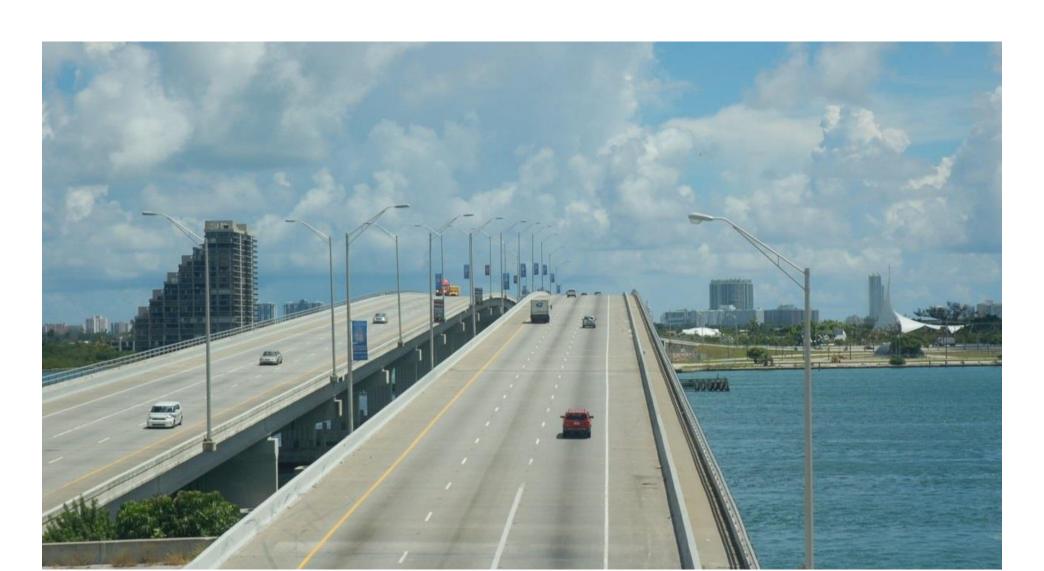


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#### Museum Park Metromover Station



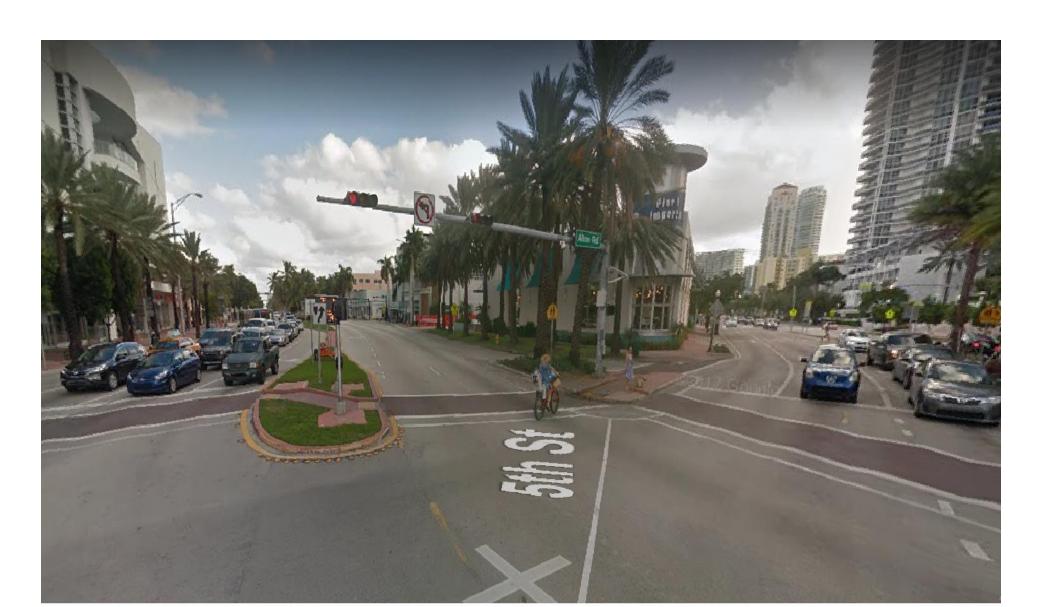
### Beach Corridor (I-395 Bridge)



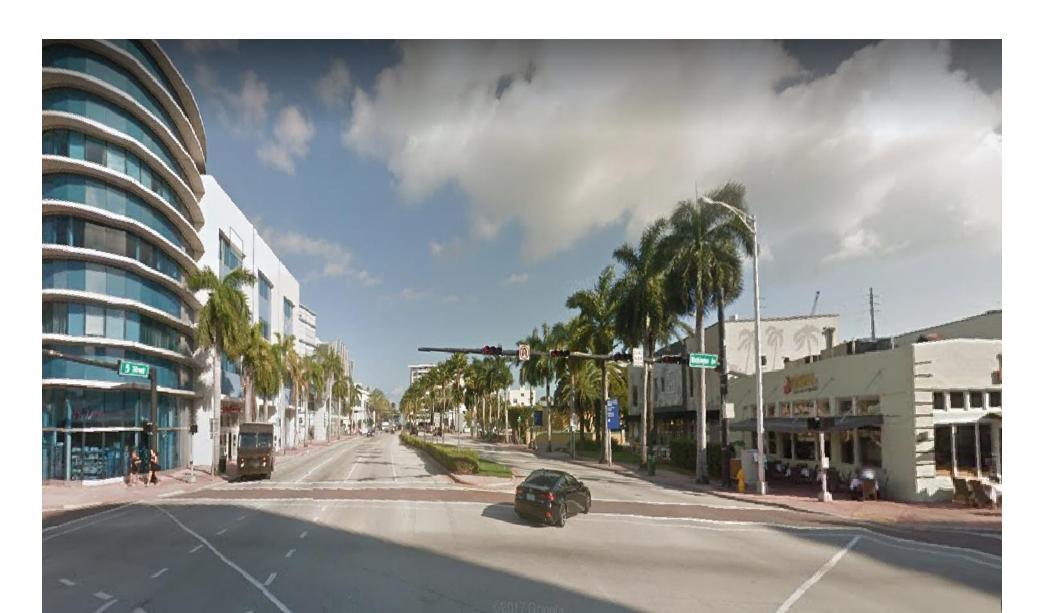
#### Beach Corridor (MacArthur Causeway & PortMiami)



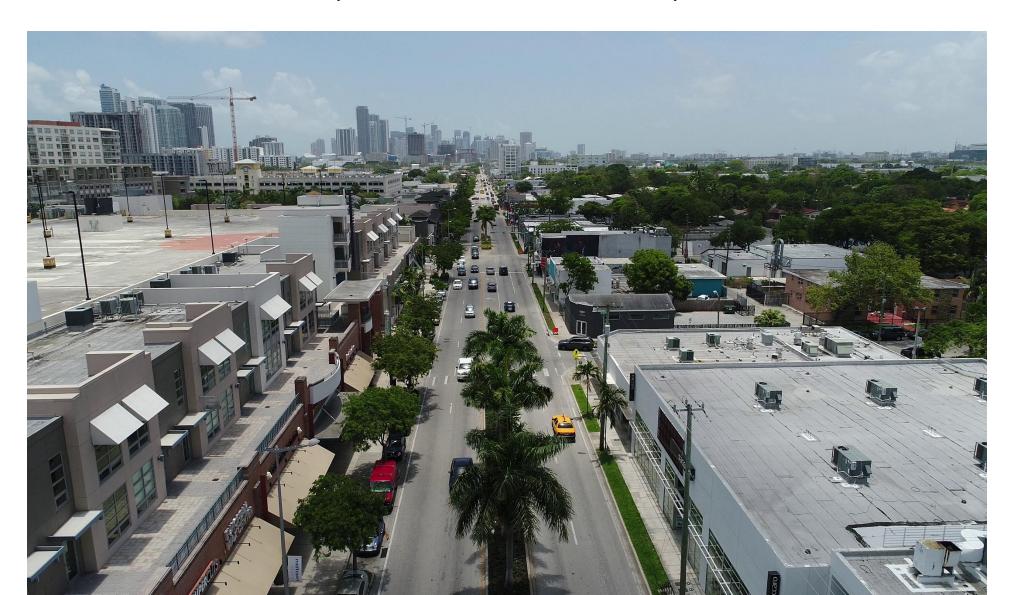
# Beach Corridor (Alton Rd & 5th St)



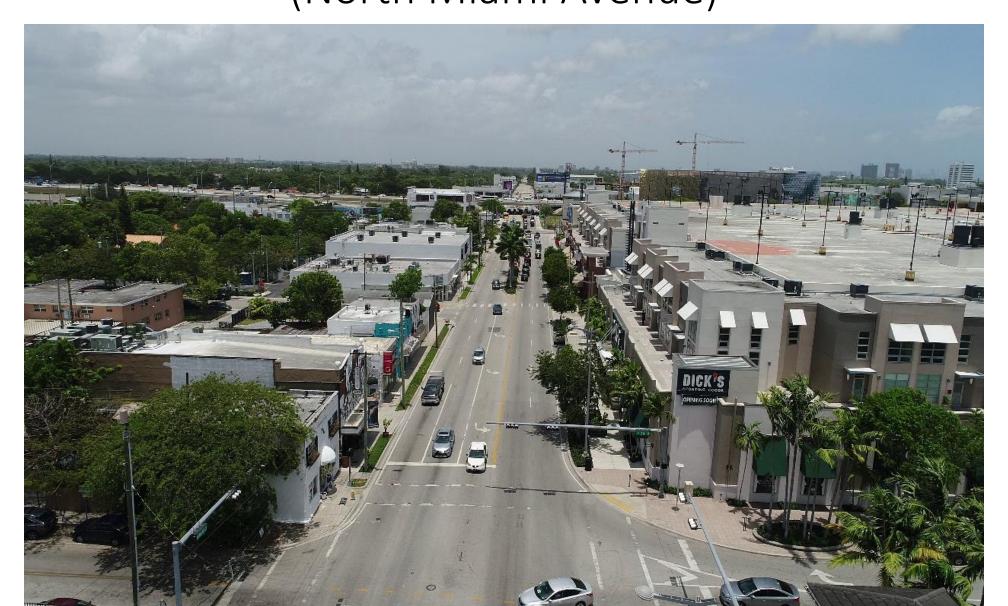
# Beach Corridor (Washington Ave & 5th St)



# Beach Corridor (North Miami Ave)



# Beach Corridor (North Miami Avenue)



- Project Milestone Schedule
  - 2<sup>nd</sup> Quarter 2019 Identify Recommended Alternative
  - 3<sup>rd</sup> Quarter 2019 TPO Selection of Locally Preferred Alternative (LPA)
  - 3<sup>rd</sup> Quarter 2019 FTA Class of Action Determination
  - 4<sup>th</sup> Quarter 2020 FTA Record of Decision (ROD)

#### **East-West Corridor**

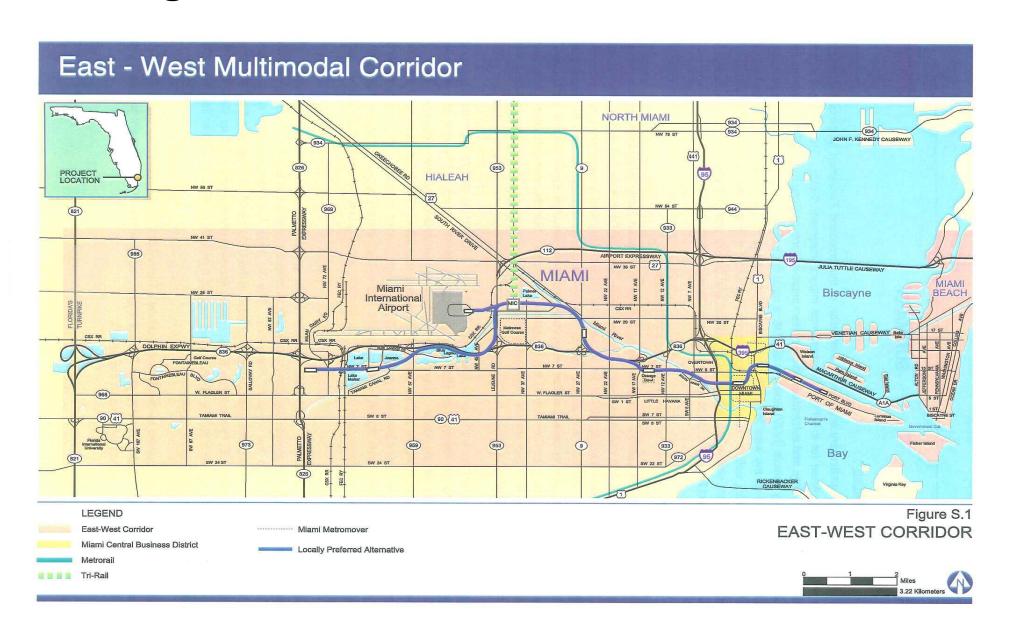
- Study Limits: Florida
   International University (FIU) to
   Miami Intermodal Center (MIC)
   at Miami International Airport
   (MIA)
- Length: 11 Miles
- Unique Markets: Colleges, major malls, major employment centers, and MIA
- Connection to existing Metrorail



#### East-West Corridor

		1993	Transit Corridors Transitional Analysis
		4000	
		1996	Selected Metrorail as Locally Preferred Alternative (LPA)
		1998	EW Multimodal Corridor Study: FIU – Miami Beach
ш		1330	Completed Final Environmental Impact Statement (FEIS)  FTA Issues Record of Decision (ROD) for Palmetto – PortMiami Segment
HISTORICAL TIMELINE			
		2002	Passage of People's Transportation Plan (PTP)
. JK		2002	Includes East-West Corridor
SH SH		2004	MPO's Rail Convertibility Study
STC	_		Study Recommends Metrorail / LRT-type service on CSX Corridor
王		2005	CUTR BRT Opportunities Study
		2008	Restarted Development of East-West Corridor
			Supplemental Draft Environmental Impact Statement (DEIS) for FIU – MIC Segment
		2012	MIC - Earlington Heights (AirportLink) Opens
		2015	Approval of Categorical Exclusion for East-West SR-836 Express Bus Services
		2010	11 - 3
		2016	FDOT Selects a Consultant for Project Development - BRT/LRT along Flagler St
			Coordinating with FTA for Project Developmental Guidance

#### Original East-West Corridor LPA 1998

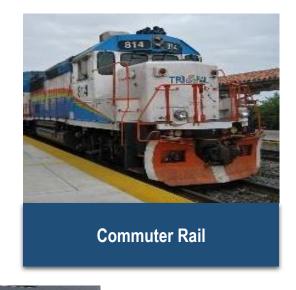


### East-West Corridor

#### **Mode Alternatives**









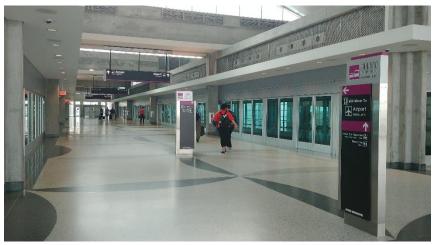


## East-West Corridor

• Terminal: Miami Intermodal Center (MIC) at Miami International Airport MIA)









# SR836 WB Approaching NW 57 Avenue



# SR836 WB Approaching NW 72 Avenue



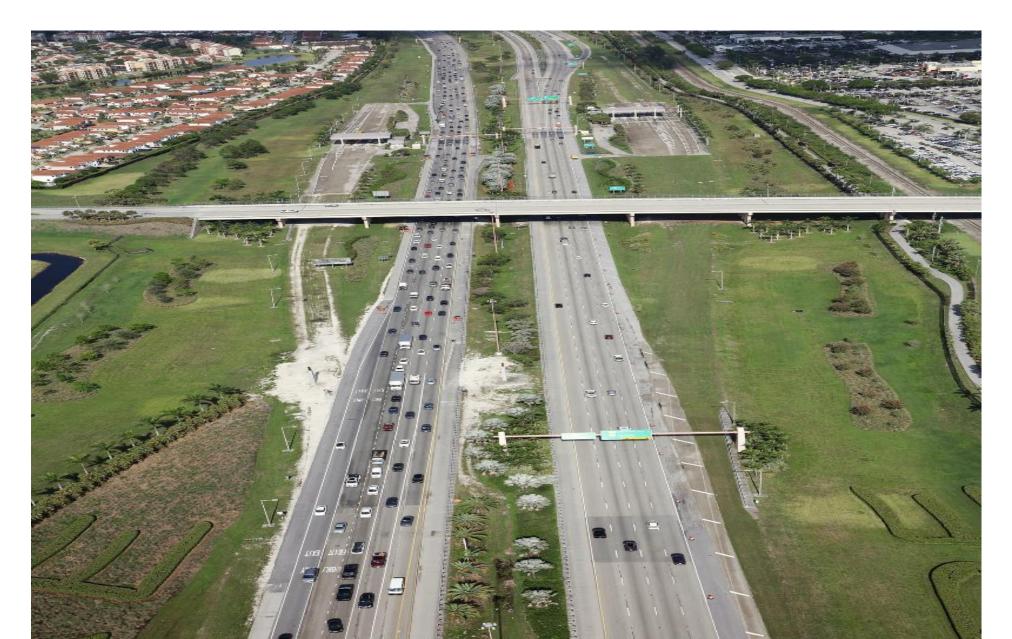
# SR836 WB Approaching NW 82 Avenue







# SR836 WB Approaching NW 97 Avenue



# SR836 – Dolphin Park & Ride



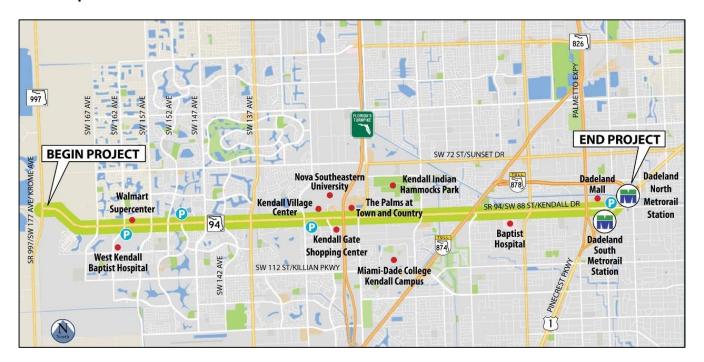
# Panther Station Bus Terminal Florida International University

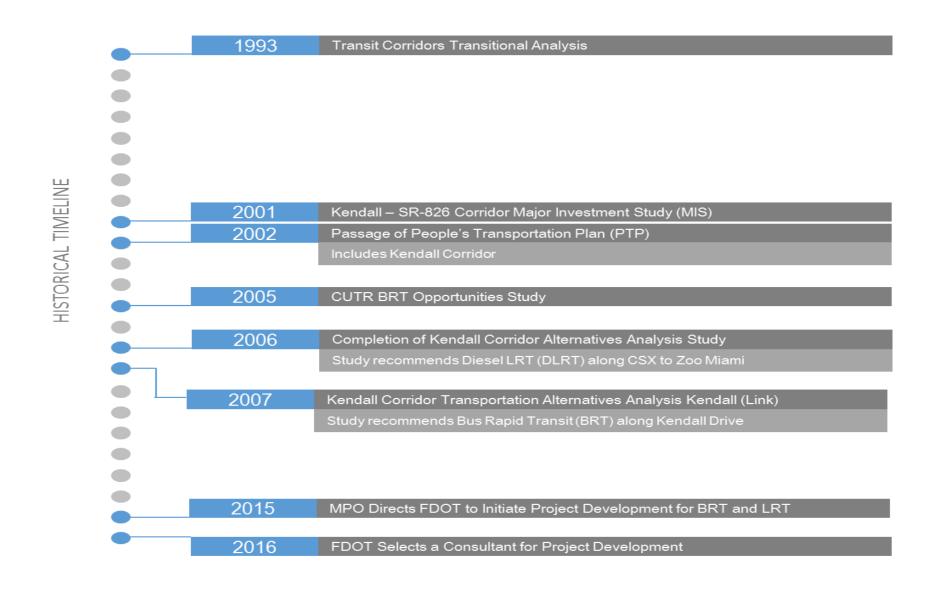


#### East-West Corridor

- Project Milestone Schedule
  - 4<sup>th</sup> Quarter 2018 Identify Recommended Alternative
  - 1<sup>st</sup> Quarter 2019 TPO Selection of Locally Preferred Alternative (LPA)
  - 2<sup>nd</sup> Quarter 2019 FTA Class of Action Determination
  - 2<sup>nd</sup> Quarter 2020 FTA FONSI

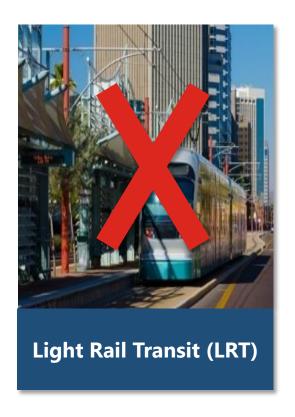
- Study Limits: SR 94/Kendall Drive/SW 88th St. from SR 997/Krome Ave./SW 177th Ave. to Dadeland North Metrorail Station
- Length: 10 Miles
- Unique Markets: Local communities, major malls, and hospitals





#### **Mode Alternatives**







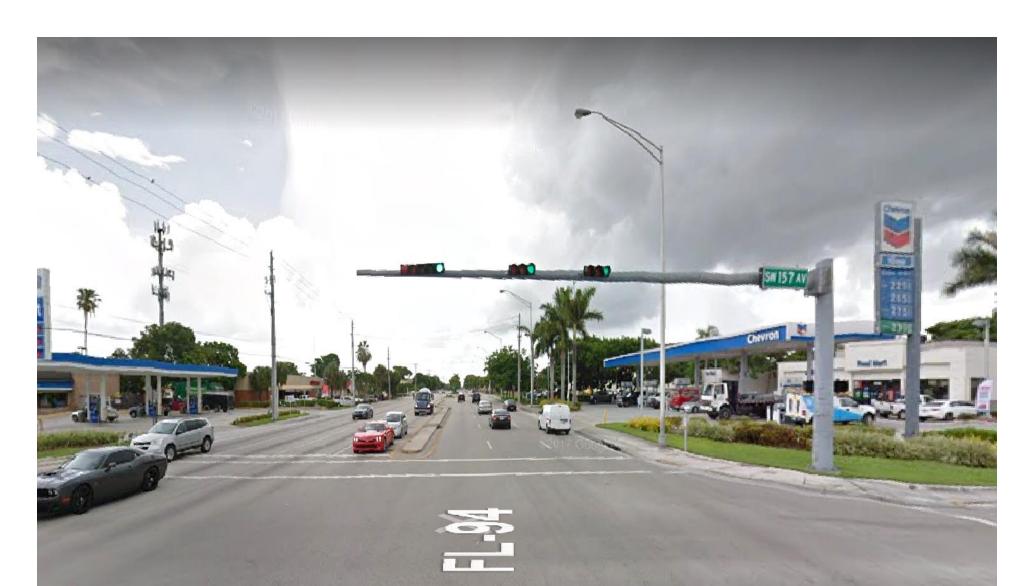
# Kendall Corridor (6 Lanes) Kendall Dr. & Dadeland Boulevard



# Kendall Corridor (6 Lanes) Kendall Dr. & SW 103 Avenue



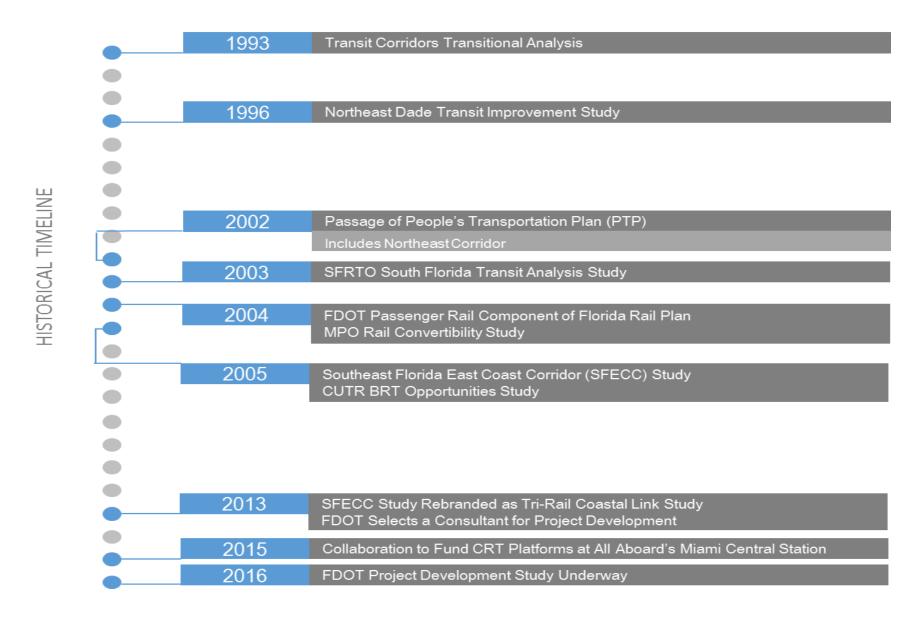
# Kendall Corridor (6 Lanes) Kendall Dr. & SW 157 Avenue



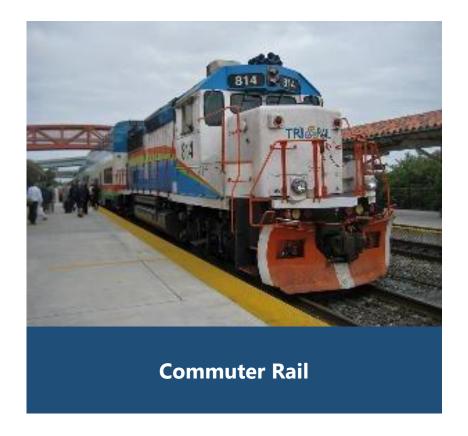
- Project Milestone Schedule
  - 4<sup>th</sup> Quarter 2018 Identify Recommended Alternative
  - 4<sup>th</sup> Quarter 2018 TPO Selection of Locally Preferred Alternative (LPA)
  - 1<sup>st</sup> Quarter 2019 FTA Class of Action Determination
  - 4<sup>th</sup> Quarter 2019 FTA FONSI

- Study Limits:
  - Downtown Miami to City of Aventura
- Unique Markets:
  - Regional destinations, major employment centers, and major malls
- Five additional stations:
  - Aventura
  - North Miami Beach
  - North Miami
  - Upper Eastside
  - Midtown/Design District





#### Mode Alternative

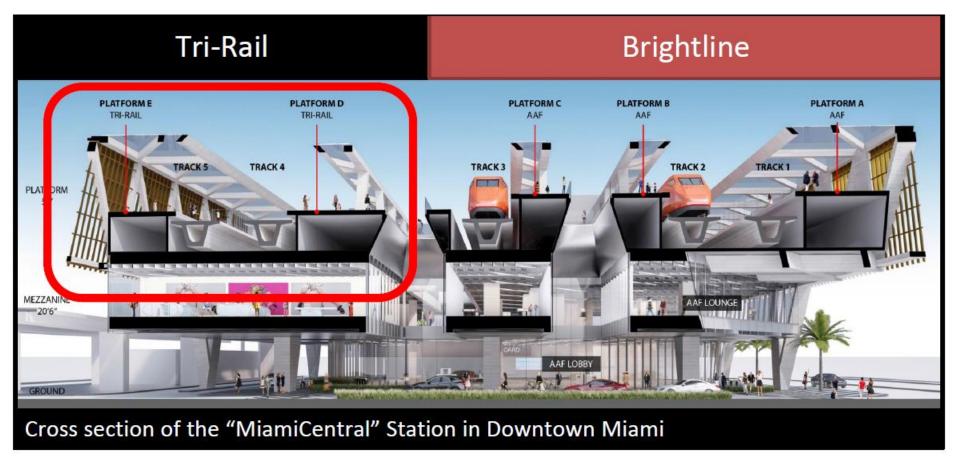


## Northeast Corridor (Miami Downtown Station)



# Brightline (All Aboard Florida)







## Northeast Corridor FEC NE 79<sup>th</sup> Street Looking South



## Northeast Corridor FEC NW 163<sup>rd</sup> St Looking North



- Project Status:
  - NEPA effort +30% complete
- Next Steps:
  - Negotiate FEC Access Agreement and Operations/Maintenance
  - Project Development pending access agreement & local financing plan



## Project Information Resources

- Project Websites:
- SMART Plan: www.MiamiSmartPlan.com
- Beach Corridor: <a href="https://www.miamidade.gov/transit/smart-plan-beach-corridor.asp">https://www.miamidade.gov/transit/smart-plan-beach-corridor.asp</a>
- East West Corridor: <a href="https://www.miamidade.gov/transit/smart-plan-east-west-corridor.asp">https://www.miamidade.gov/transit/smart-plan-east-west-corridor.asp</a>
- Kendall Corridor: <a href="http://www.fdotmiamidade.com/kendallrapidtransit.html">http://www.fdotmiamidade.com/kendallrapidtransit.html</a>
- North Corridor: <a href="http://www.fdotmiamidade.com/27thAvenueRapidTransit.html">http://www.fdotmiamidade.com/27thAvenueRapidTransit.html</a>
- Northeast Corridor: <a href="http://tri-railcoastallinkstudy.com/">http://tri-railcoastallinkstudy.com/</a>
- South Corridor: <a href="https://www.miamidade.gov/transit/smart-plan-south-dade-transit-way-corridor.asp">https://www.miamidade.gov/transit/smart-plan-south-dade-transit-way-corridor.asp</a>

# Additional Project Information Resources

- Additional information available to the general public:
  - County Owned Parcel Inventory List 2017 (available at https://www.miamidade.gov/transit/library/parcel-inventory-list.pdf)



## Next Steps

- One-On-One Meetings July 30<sup>th</sup> -Aug 1<sup>st</sup>
- Deadline for Questions Aug 3<sup>rd</sup>
- Responses to the RFI due on Aug 24<sup>th</sup>
- County staff will review responses
- Provide preliminary findings and recommendations to the next available Transportation Planning Organization (TPO) meeting

# Questions and Answers