



MDX SR 836/DOLPHIN EXPRESSWAY **SOUTHWEST EXTENSION**

Project Development and Environment

PD&E Study

Miami-Dade County, Florida

**Agency/Elected Officials
Kickoff Meeting**

September 4, 2014

ETDM NUMBER: 11482

MDX WORK PROGRAM NO.: 83618

AGENDA

About MDX

Study Background

About the Study

Environmental Features

Study Coordination



About MDX

- MDX was enabled by the Florida Legislature and created by ordinance of the Miami-Dade County Commission in 1994 as a **local agency of the state to assure that tolls collected on the MDX system would stay in Miami-Dade County to be invested locally**
- MDX is governed by 13 Board of Directors
 - 7 are appointed by the Miami-Dade County Commission
 - 5 are appointed by the Governor
 - District 6 FDOT Secretary is the 13th member of the Board



About MDX

- Maintains, operates and improves the following expressways:
 - SR 112/Airport Expressway, SR 836/Dolphin Expressway, SR 874/Don Shula Expressway, SR 878/Snapper Creek Expressway, and SR 924/Gratigny Parkway
- **100% of all tolls collected in the MDX system remain and are invested in Miami-Dade County**
 - **No federal funds, no State Transportation Trust Fund, no gas tax, no impact fees, no property or county transit tax**
- MDX borrows money by selling bonds and uses toll revenue as collateral, similar to a 30 year mortgage loan
 - 95% of revenues comes from tolls, 5% from investment
 - 95% goes to project funding and O&M, 5% to Administration



AGENDA

About MDX

Study Background

About the Study

Environmental Features

Study Coordination



Study History

- 2002 Visioning Plan
- 2007 Future Projects Forum
- 2008 Concept Report
 - Preliminary Outreach Conducted
 - Elected Officials briefings
 - MPO CTAC
 - Community Councils
 - HOA presentations
- 2012 ETDM Programming Screen
- 2035 Long Range Transportation Plans
 - MDX Master Transportation Plan
 - Miami-Dade County LRTP



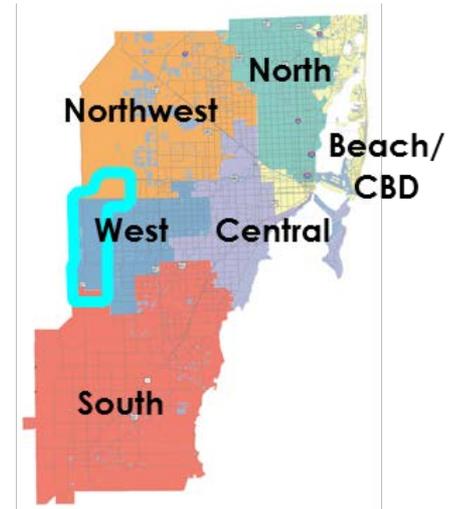
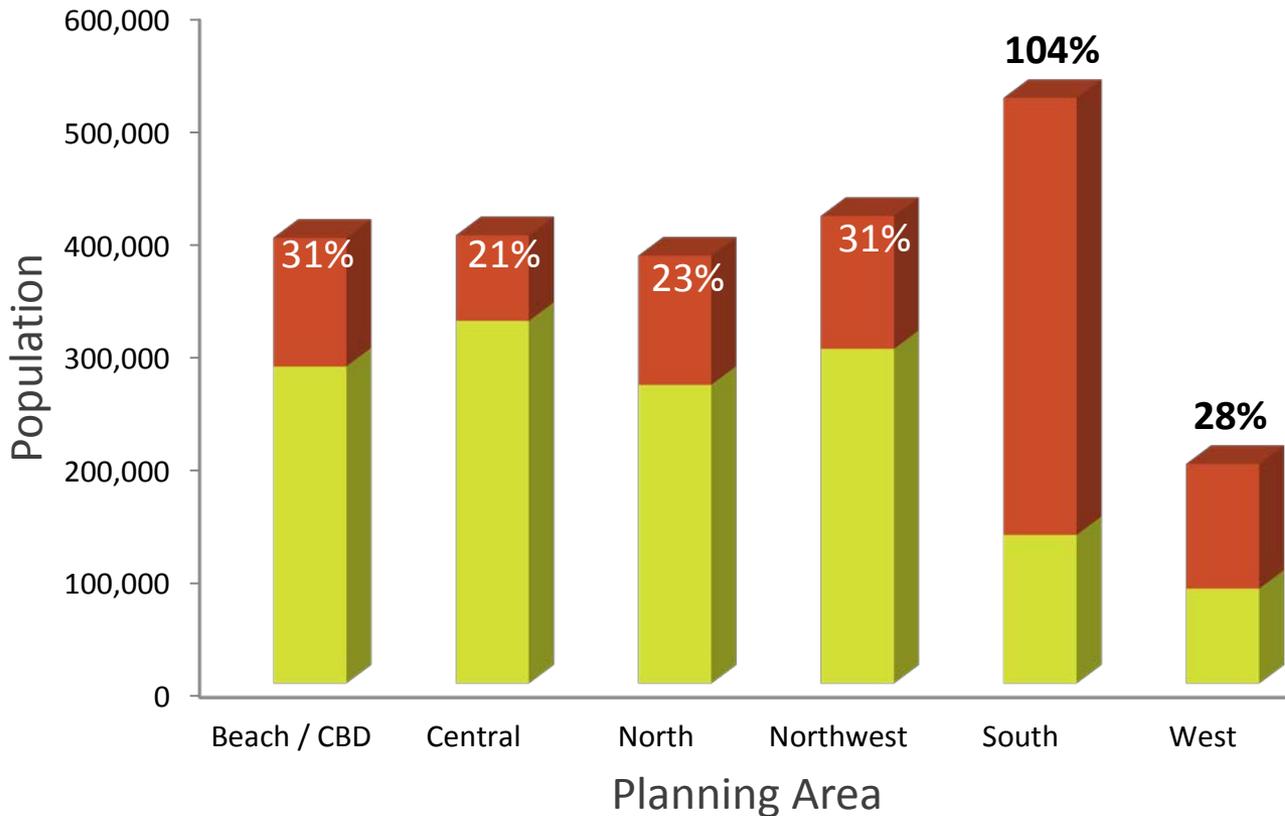


Study Area

- Unincorporated Miami-Dade County
- Study area bounded by
 - NW 12th Street to the north
 - SW 136th Street to the south
 - SW 152nd Avenue to the east
 - SW 177th Avenue (Krome Ave.) to the west
- Everglades National Park
- Kendall Tamiami Airport
- Fastest growing area in the County
- Limited options for north-south travel
- Limited access to expressways
- Congested roadway network
- Safety concerns

Population Growth by Planning Area

Population growth projected in West and South portions of the County



- 2035 Population Growth
- 2005 Population
- Study Area

Source: Miami-Dade MPO

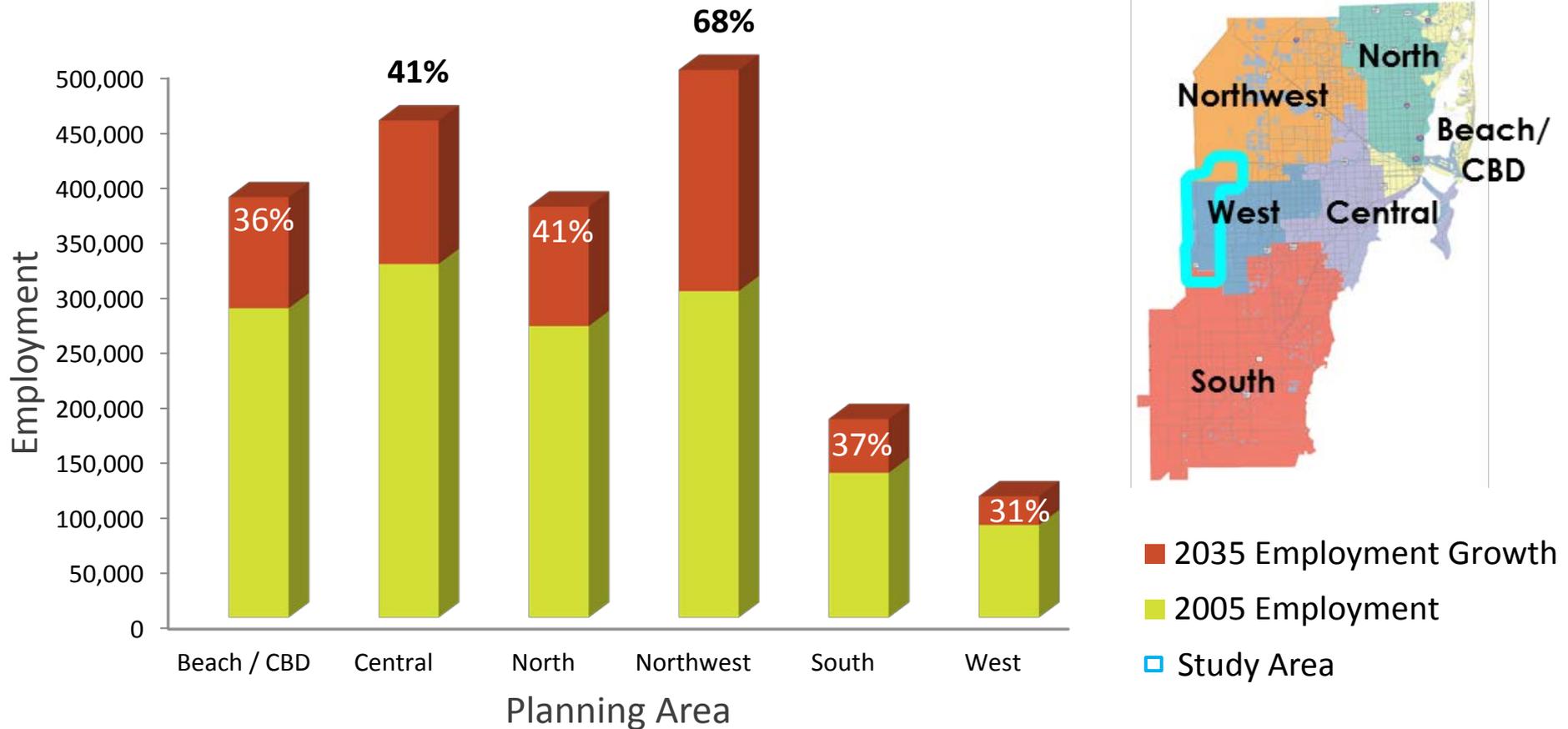


SR 836/Dolphin Expressway Southwest Extension PD&E



Employment Growth by Planning Area

Employment growth projected in Northwest and Central portions of the County



Source: Miami-Dade MPO

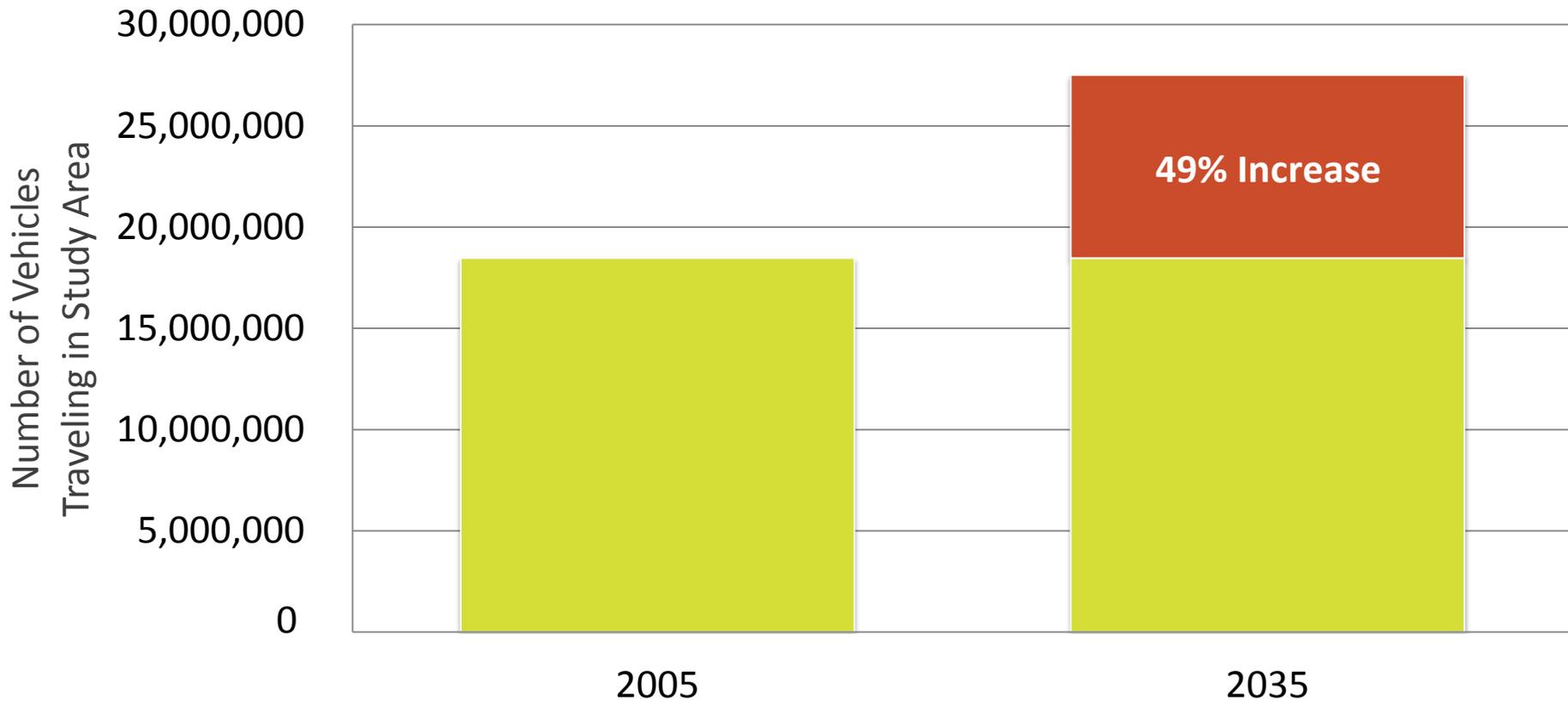


SR 836/Dolphin Expressway Southwest Extension PD&E



Transportation Demand

30-Year Period (2005-2035) / Based on Study Area Only and MPO 2035 LRTP Model



Source: Miami-Dade MPO

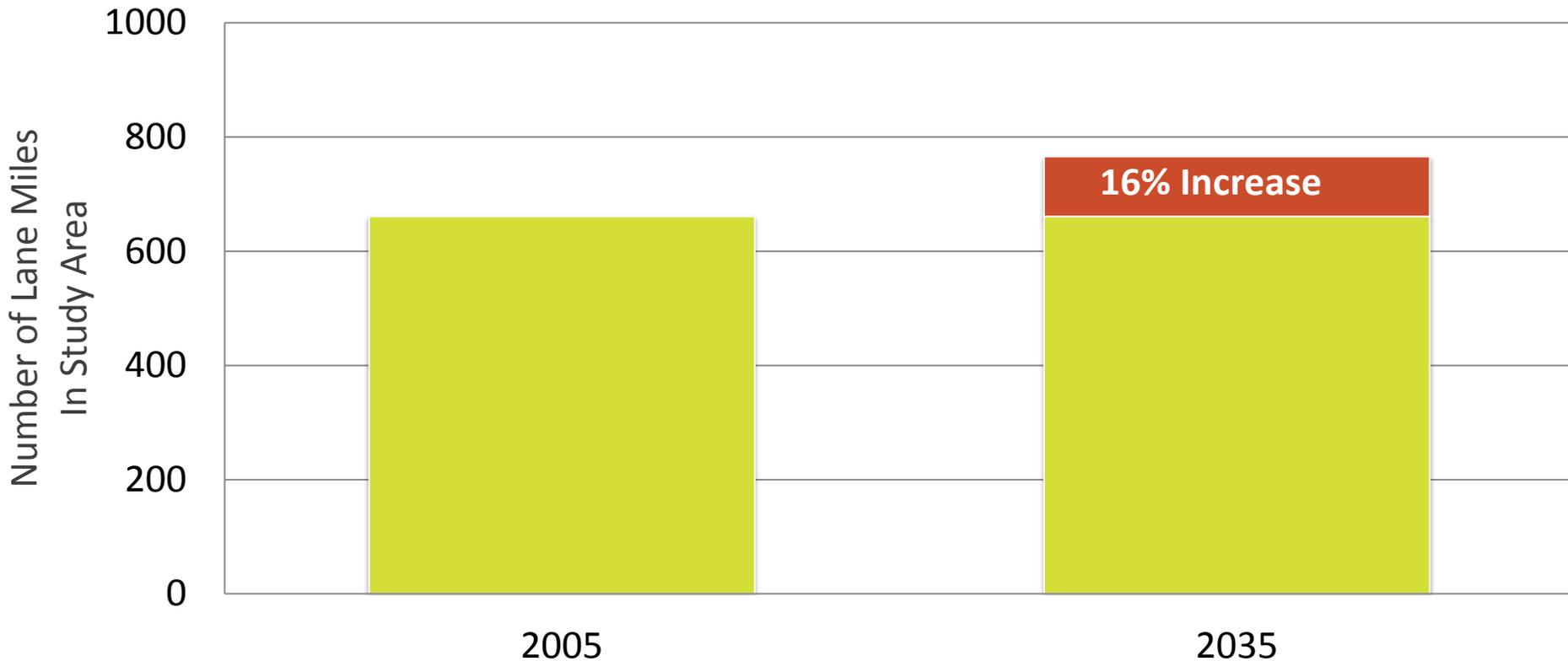


SR 836/Dolphin Expressway Southwest Extension PD&E



Transportation Supply

30-Year Period (2005-2035) / Based on Study Area Only and MPO 2035 LRTP Model



Source: Miami-Dade MPO



SR 836/Dolphin Expressway Southwest Extension PD&E



Increase in Congestion

30-Year Period (2005-2035) / Based on Study Area Only and MPO 2035 LRTP Model



Source: Miami-Dade MPO



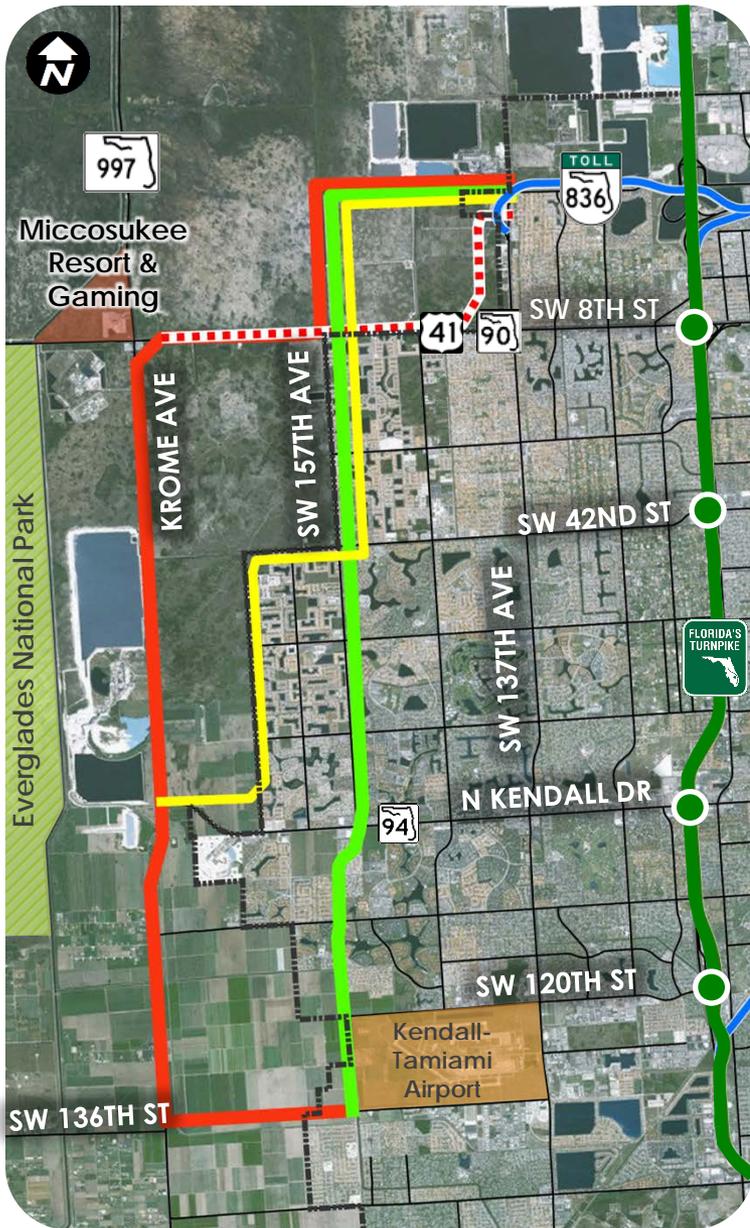
SR 836/Dolphin Expressway Southwest Extension PD&E



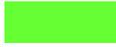
Project Needs

- Improve connectivity in the area
- Improve access to and from major employment, educational and commercial centers
- Provide north/south expressway access to serve existing and future travel demand
- Improve hurricane/emergency evacuation routes and travel times
- Evaluate multimodal transportation opportunities





Preliminary Planning Corridors

-  Corridor Alternative 1
-  Corridor Alternative 2
-  Corridor Alternative 3
-  Corridor Alternative 4
-  Urban Development Boundary

Source: Preliminary Corridors Alternatives 1-3 were identified and evaluated in the 2008 Concept Report. Corridor Alternative 4 was proposed by the public (not evaluated)

ETDM Programming Screen

- Advance Notification - December 13, 2010
- Programming Summary Report – published May 8, 2012
- Continue coordination with ETAT throughout study
- Work with FDEP to resolve Dispute Resolutions
 - Special Designations
 - Recreation Areas

| | Evaluation of Direct Effects | | | | | | | | | | | | | | Secondary and Cumulative Effects | | | | | | |
|---|------------------------------|---------------------------------------|-----------|-------------|----------------|------------|----------------------|----------------------------|----------|----------------------|-----------------------------------|------------------|------------------------|------------|----------------------------------|----------|----------|------------|--------|---|---|
| | Natural | | | | | | | Cultural | | | Community | | | | | | | | | | |
| | Air Quality | Coastal and Marine Contaminated Sites | Farmlands | Floodplains | Infrastructure | Navigation | Special Designations | Water Quality and Quantity | Wetlands | Wildlife and Habitat | Historic and Archaeological Sites | Recreation Areas | Section 4(f) Potential | Aesthetics | Economic | Land Use | Mobility | Relocation | Social | | |
| ETAT Review Period: 05/14/2009 - 06/28/2009. Re-Published: 09/09/2010 | | | | | | | | | | | | | | | | | | | | | |
| Alternative #1 From NW 137th Avenue to SW 136th Street | 0 | 2 | 3 | 2 | 4 | 2 | N/A | 5 | 4 | 4 | 4 | 4 | 5 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 4 |
| Alternative #2 From NW 137th Avenue to Krome Avenue | 0 | 2 | 3 | 2 | 4 | 2 | N/A | 5 | 4 | 4 | 4 | 4 | 5 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 4 |
| Alternative #3 From NW 137th Avenue to SW 136th Street | 0 | 2 | 3 | 2 | 4 | 3 | N/A | 5 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 |

[https://etdmpub.flas-etat.org/est/\(ETDM # 11482\)](https://etdmpub.flas-etat.org/est/(ETDM # 11482))



AGENDA

About MDX

Study Background

About the Study

Environmental Features

Study Coordination



Project Development and Environment (PD&E) Study

Why it's done

- Evaluate project feasibility and potential environmental impacts (natural, physical, socio-cultural)
- Comply with federal and state environmental laws
- Required to secure federal regulatory approval

What it involves

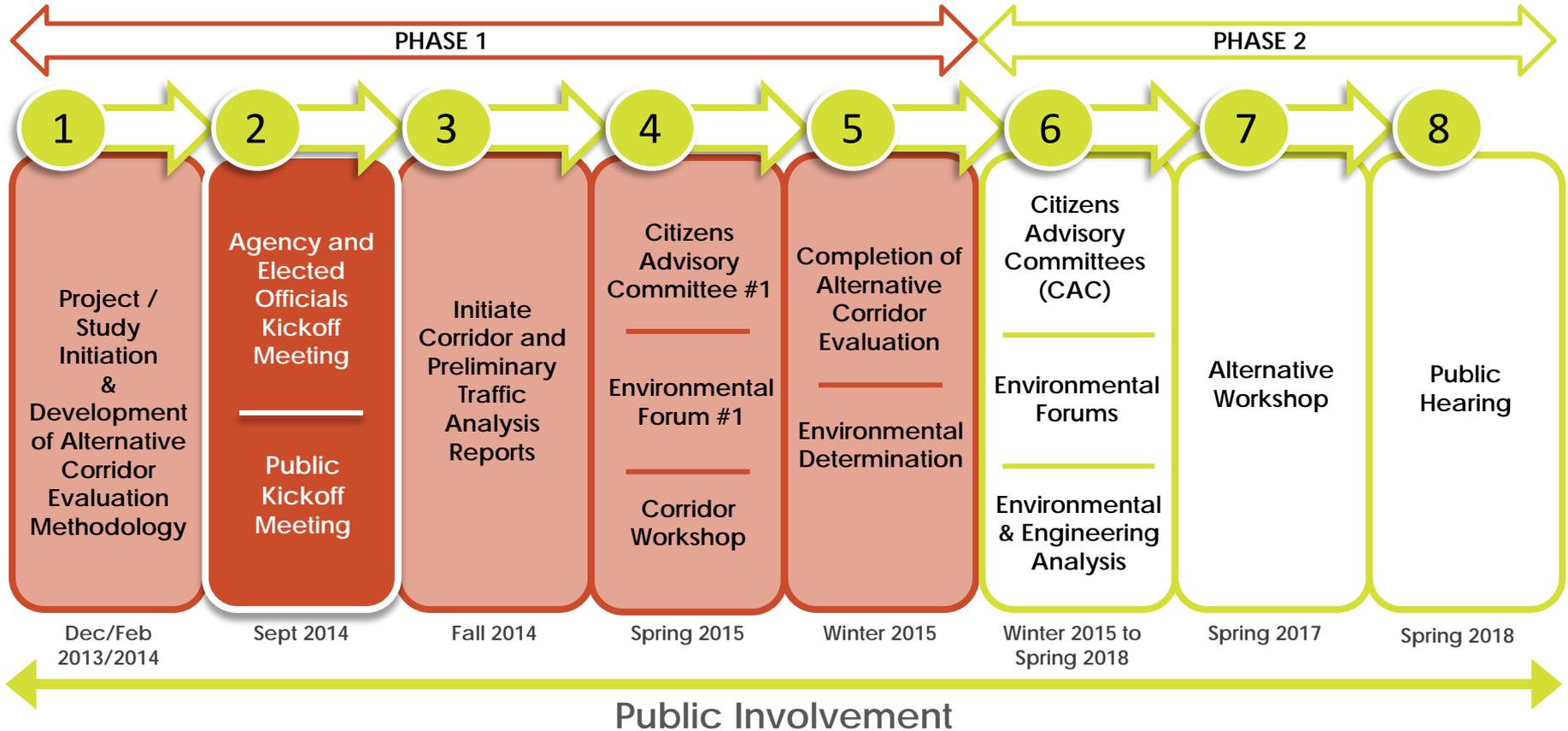
- Evaluating different corridors
- Conducting preliminary engineering
- Evaluating options to avoid, minimize, or mitigate potential environmental impacts
- Coordinating with federal, state and local agencies
- Engaging the public in project development



Steps to Implementation



Schedule



Study to be completed in two phases:

Phase 1 - Corridor Analysis

Phase 2 - Alternatives Analysis



Public Involvement



Purpose

- Make public aware of the project
- Solicit public input



Scheduled Meetings

- Agency and Elected Officials Kickoff
- Public Kickoff Meeting
- Corridor Workshop
- Alternatives Public Workshop
- Public Hearing



Get Involved

- Small group meetings
- Website / Internet:
www.mdxway.com
- 836swextension@mdxway.com
- Surveys, fact sheets and newsletters
- Citizens Advisory Committees
- Environmental Forums



PD&E Study

Phase 1: Corridor Analysis



Alternative Corridor Evaluation (ACE)

Alternative
Corridor
Evaluation
Methodology
Memorandum

Preliminary
Engineering
and Traffic
Analysis

Preliminary
Environmental
Analysis

Alternative
Corridor
Workshop
to Solicit
Public
Input

Alternative
Corridor
Evaluation
Report

Selected
Corridor(s)
Move on
to Phase 2

PD&E Study

Phase 2: Alternative Analysis



Engineering

Current
Terminus of
SR 836 at
SW 137th
Avenue



View looking South

- Typical Section Analysis
- Alternative Alignments
- Traffic Analysis
- Safety
- Drainage
- Access Management
- Right of Way Needs
- Transportation Plans
- Structures
- Utility / Rail Coordination
- Cost Estimates
- Financial Feasibility

Environment



Natural

- Water Quality
- Floodplains
- Wetlands
- Threatened and Endangered Species
- Farmlands

Physical

- Construction Impact
- Contamination
- Noise & Air
- Visual

Socio-Cultural

- Social and Community
- Land Uses
- Parks / Recreation Facilities
- Historic and Archaeological Resources

AGENDA

About MDX

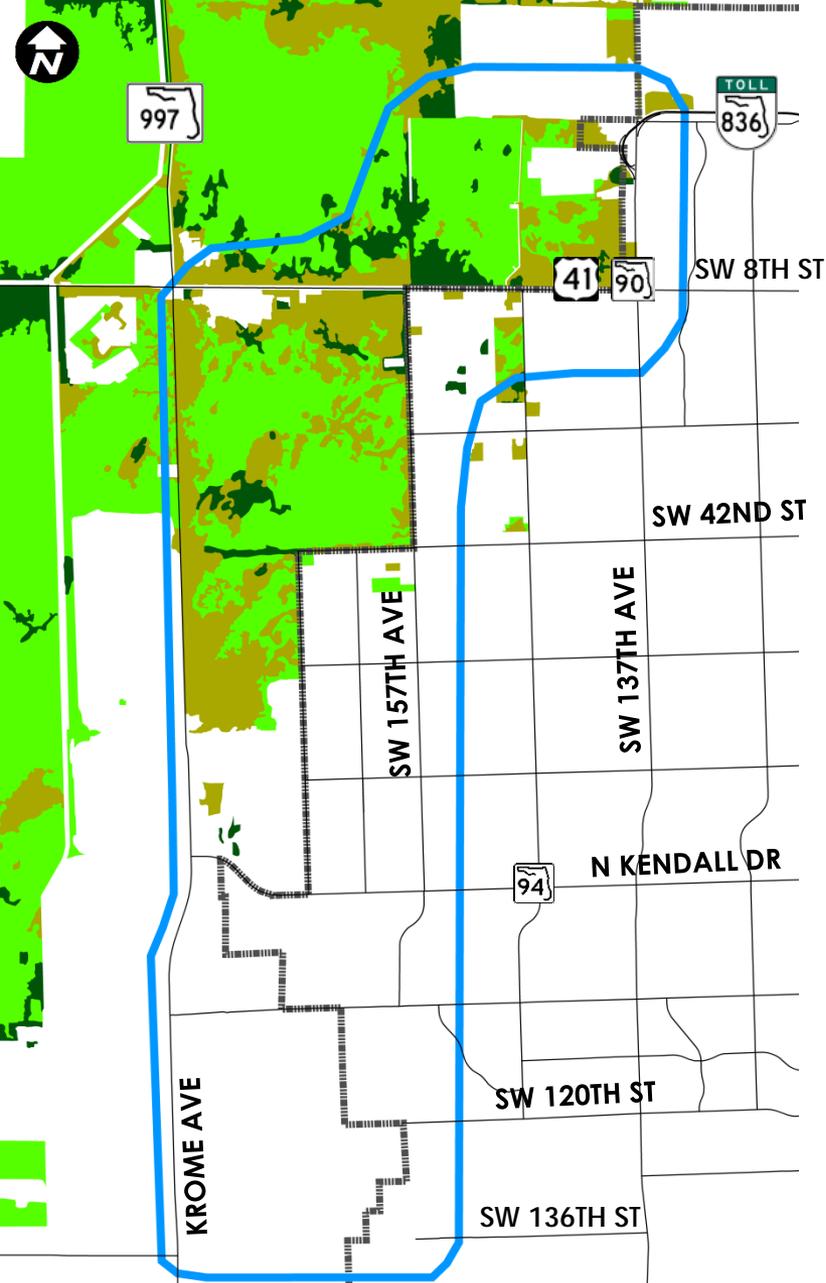
Study Background

About the Study

Environmental Features

Study Coordination





Source: SFWMD

Wetlands



Approximately 6,600 acres of wetlands

- 10% Mixed Wetland Hardwoods
- 39% Exotic Wetland Hardwoods
- 51% Freshwater Marshes
- Tree Islands

WETLAND HABITATS

-  STUDY AREA
-  MIXED WETLAND HARDWOODS
-  EXOTIC WETLAND HARDWOODS
-  FRESHWATER MARSHES
-  URBAN DEVELOPMENT BOUNDARY



Threatened and Endangered Species

WOOD STORK

- Within Core Foraging Area for the Wood Stork
- 2 Wood Stork colonies within 5 miles of study area



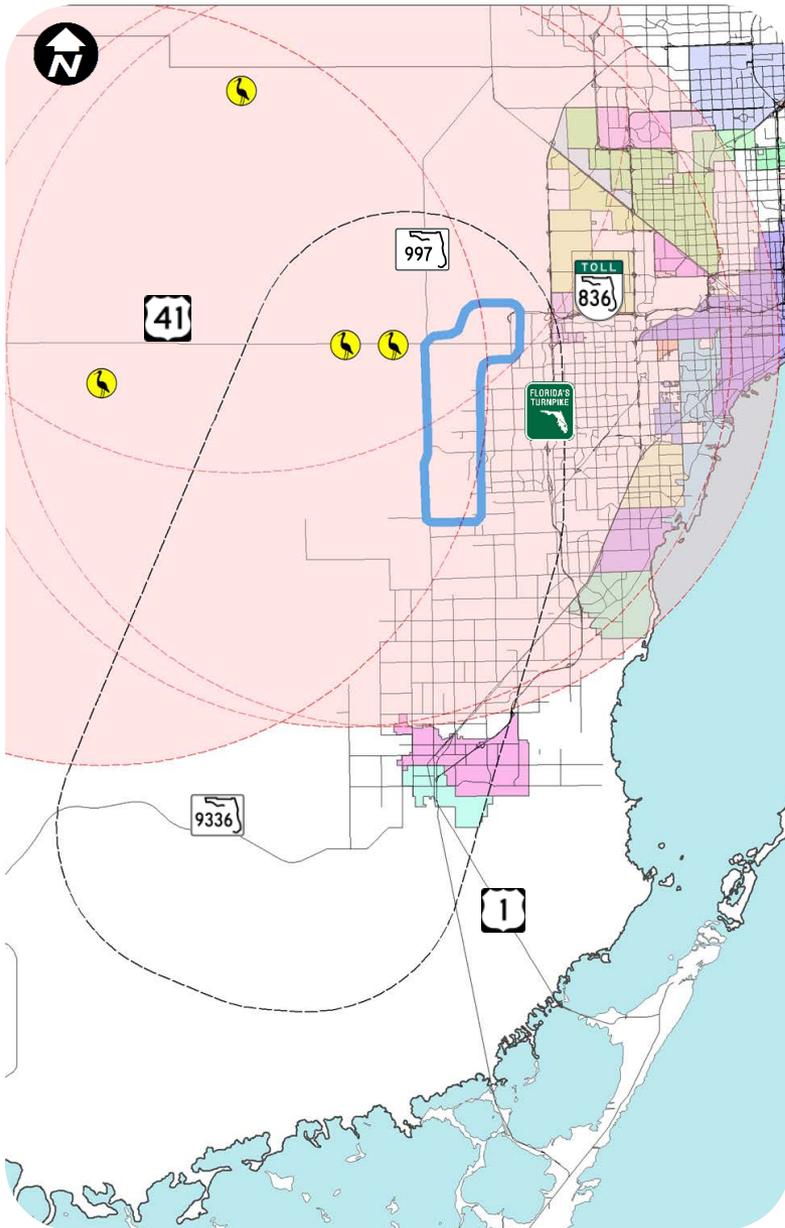
FLORIDA BONNETED BAT

Study Area within Bonneted Bat Focal Area



LEGEND

-  STUDY AREA
-  BONNETED BAT FOCAL AREA
-  WOOD STORK COLONIES
-  CORE FORAGING AREA

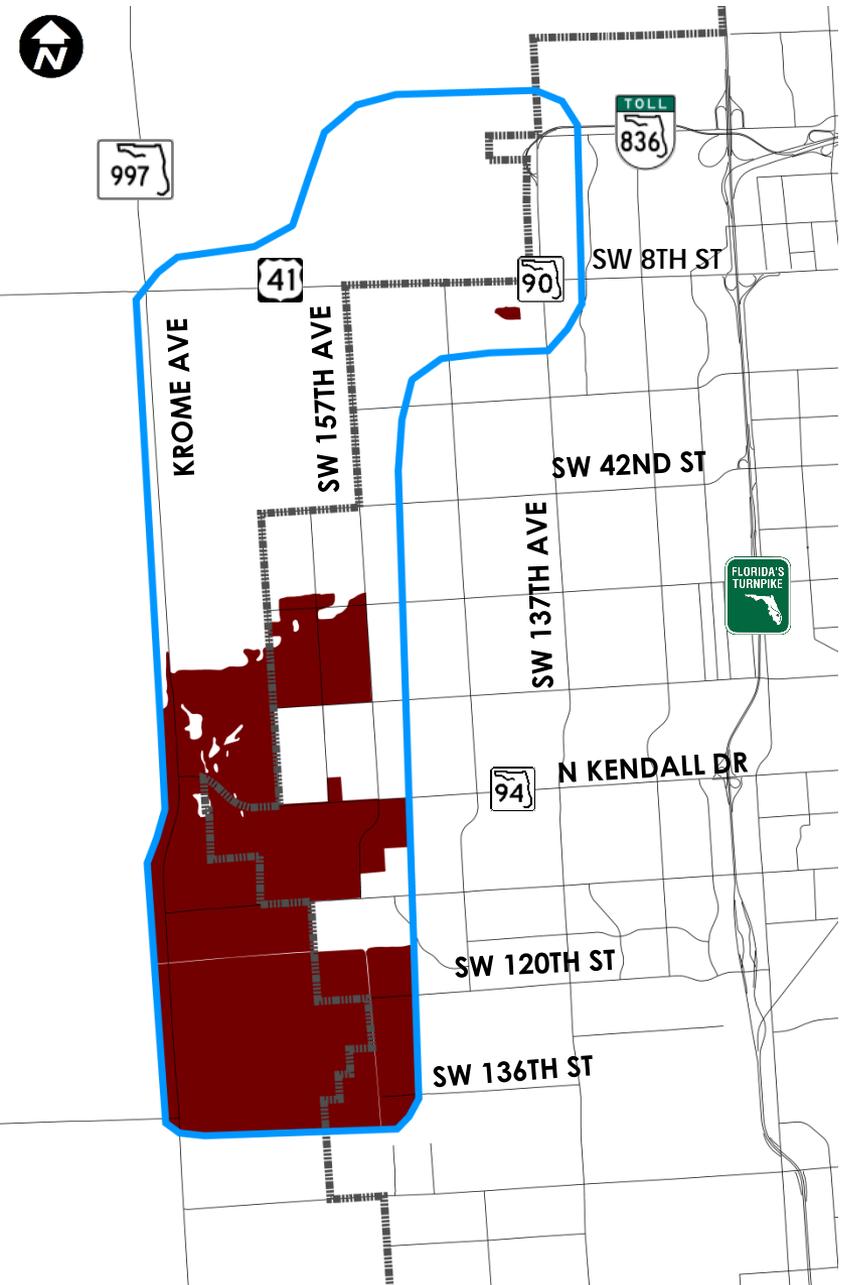


Source: USFWS / Bonneted Bat Photograph by Merlin Tuttle, Bat Conservation International (National Geographic)

836

SR 836/Dolphin Expressway Southwest Extension PD&E





Source: USDA / NRCS

Unique Farmlands



Approximately 7,000 acres of Unique Farmland

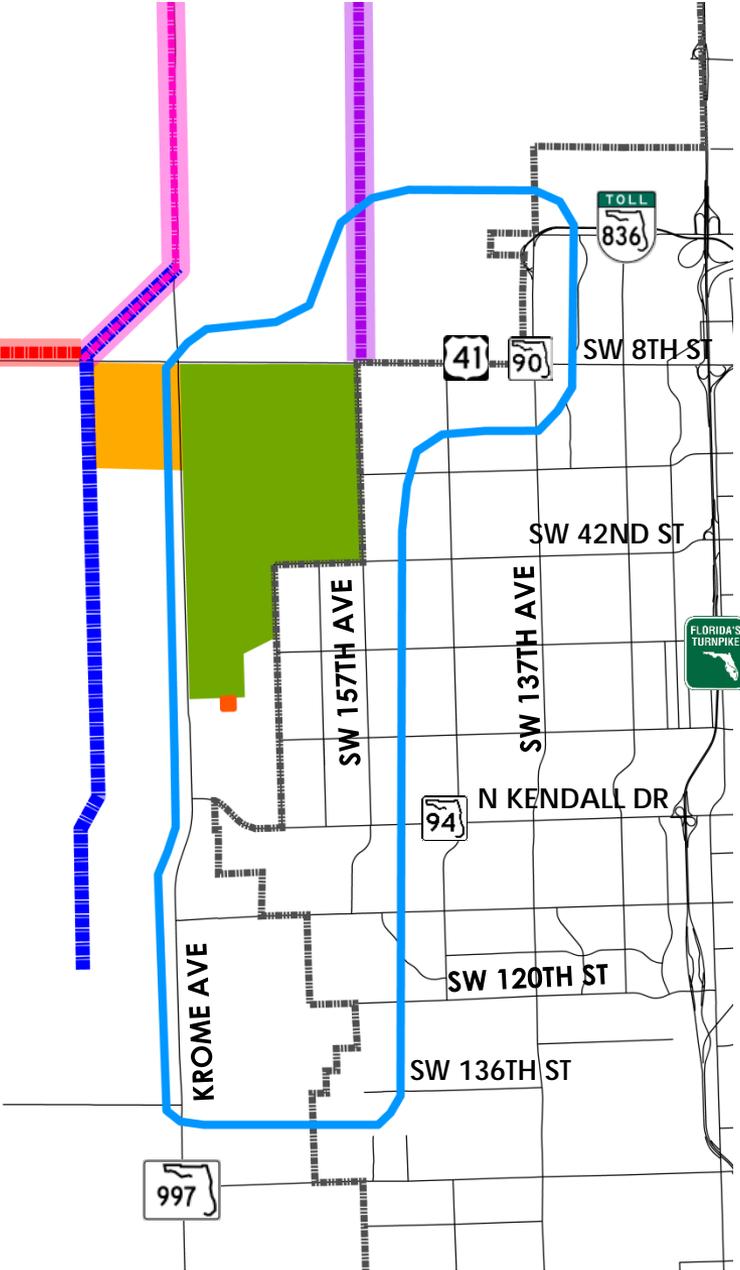
- Land other than prime farmland
- Soil that has special combination of unique characteristics
- Capable of sustaining high yields of a specific crop

UNIQUE FARMLANDS

-  STUDY AREA
-  FARMLAND OF UNIQUE IMPORTANCE
-  URBAN DEVELOPMENT BOUNDARY



Comprehensive Everglades Restoration Plan



-  STUDY AREA
-  BIRD DRIVE BASIN RECHARGE AREA
-  S-356 STRUCTURES STUDY AREA
-  L-31N (L-30) SEEPAGE MANAGEMENT PILOT
-  L-30 CANAL UPGRADE
-  WCA 3 DECOMPARTENTALIZATION AND SHEETFLOW ENHANCEMENT
-  DADE-BROWARD LEVEE
-  MIAMI-DADE REUSE
-  URBAN DEVELOPMENT BOUNDARY

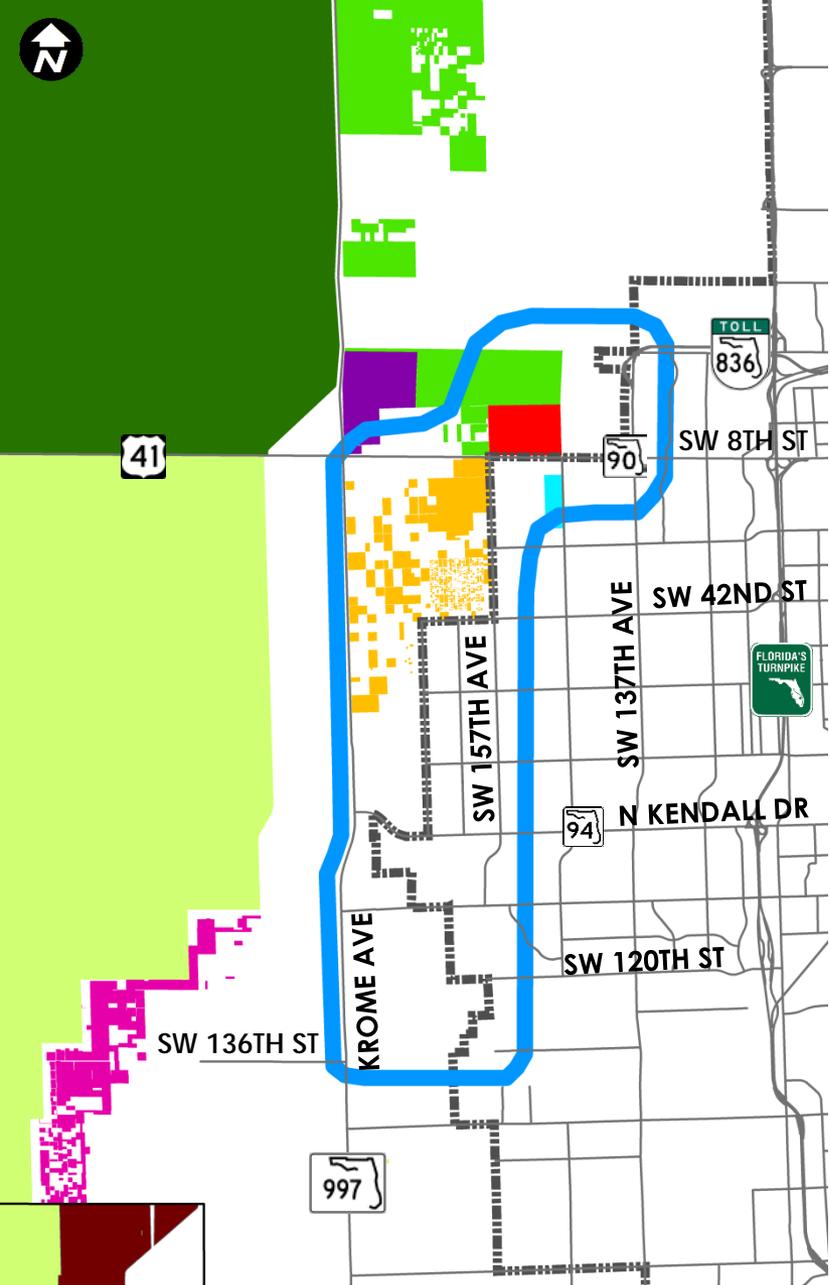
Source: SFWMD



SR 836/Dolphin Expressway Southwest Extension PD&E



Public Lands

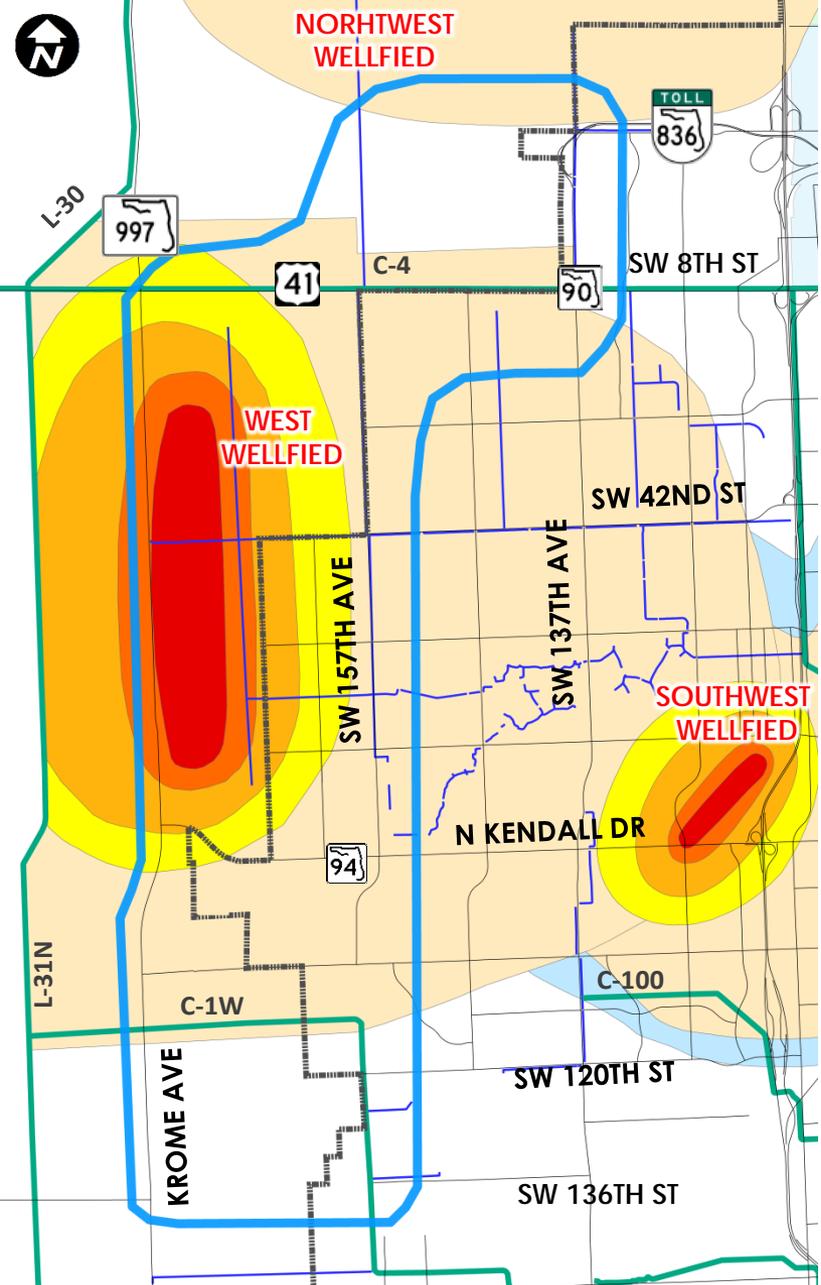


-  STUDY AREA
-  8.5 SQUARE MILE AREA
-  PENNSUCO WETLANDS
-  EVERGLADES NATIONAL PARK
-  EVERGLADES AND FRANCIS S. TAYLOR WILDLIFE MANAGEMENT AREA
-  FROG POND / L-31 TRANSITION LANDS
-  C-4 IMPOUNDMENT
-  TRAIL GLADES
-  TREE ISLAND PARK
-  BIRD DRIVE RECHARGE
-  URBAN DEVELOPMENT BOUNDARY

Source: FNAI



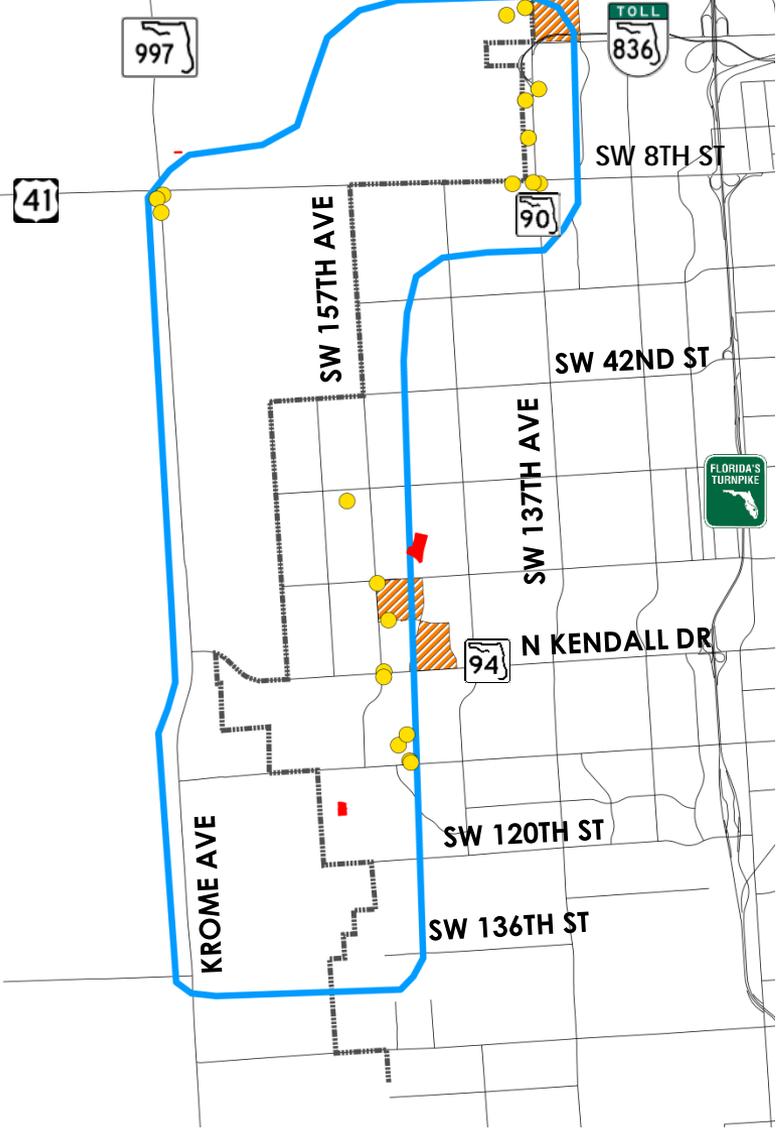
Wellfield and Canals



- WELLFIELD PROTECTION AREA**
-  STUDY AREA
 -  10 DAY
 -  30 DAY
 -  100 DAY
 -  210 DAY
 -  AVERAGE DAY
 -  MAXIMUM
 -  STATE CANALS
 -  COUNTY CANALS
 -  URBAN DEVELOPMENT BOUNDARY

Source: MDC and SFWMD





Physical Environment

- 32 known petroleum contaminated sites
- Two former (inactive) landfills
- Two designated Brownfield Areas



CONTAMINATION

Sensitive Noise Receptors include residential neighborhoods, schools and parks.



NOISE

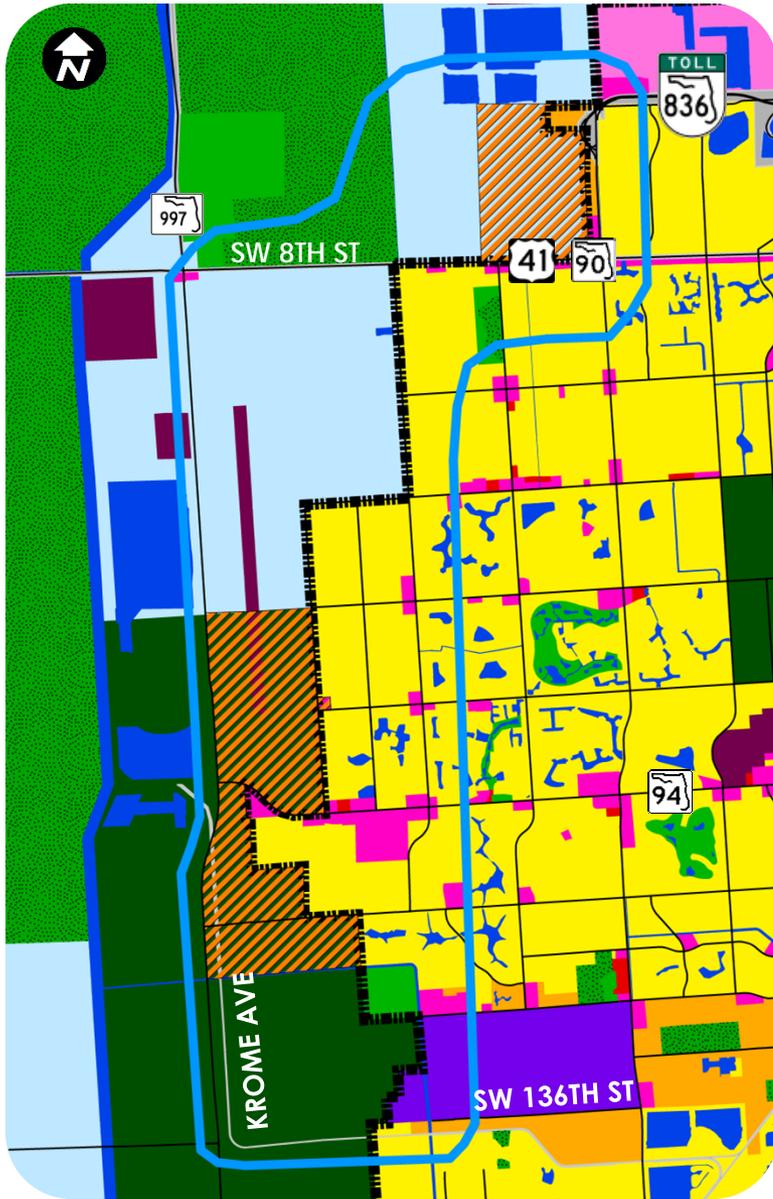
POTENTIAL CONTAMINATION CONCERNS

-  STUDY AREA
-  POTENTIAL CONTAMINATION SITES
-  LANDFILLS
-  BROWNFIELD
-  URBAN DEVELOPMENT BOUNDARY

Source: MDC and FDEP



Miami-Dade Future Land Use (2025)



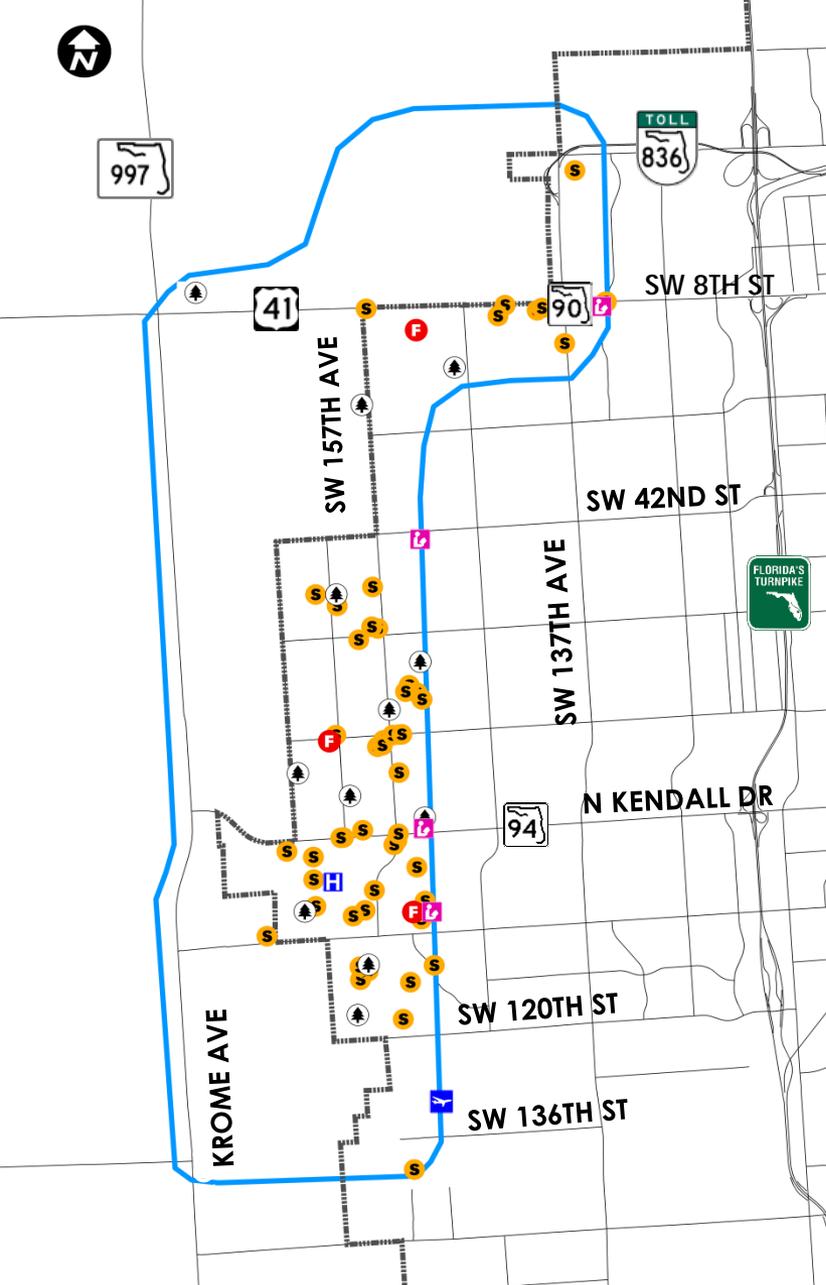
-  STUDY AREA
-  URBAN DEVELOPMENT BOUNDARY
-  URBAN EXPANSION AREA
-  AGRICULTURE
-  AIRPORTS
-  COMMERCIAL
-  ENVIRONMENTAL PROTECTION
-  INDUSTRIAL
-  INSTITUTIONS, UTILITES AND COMMUNICATIONS
-  MIXED USE
-  OPEN LAND
-  PARKS & RECREATION
-  RESIDENTIAL
-  RESTRICTED INDUSTRIAL AND OFFICE
-  TRANSPORTATION
-  WATER

Source: Miami-Dade County



SR 836/Dolphin Expressway Southwest Extension PD&E





Source: MDC and FGDL

Social Environment

- Approximately 109 Homeowners Associations
- Approximately 33, 000 Households

LEGEND

-  STUDY AREA
-  FIRE STATION
-  AIRPORT
-  SCHOOL
-  PARK
-  HOSPITAL
-  LIBRARY
-  URBAN DEVELOPMENT BOUNDARY

Cultural Resources



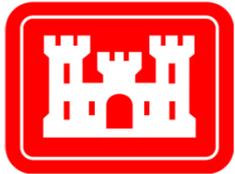
- **Previously Recorded Historic Structures**
 - 226 Historic Structures in Study Area
 - 8 Historic Bridges
 - 16 Historic Linear Resources (Canals, Roads, etc.)
- **Previously Recorded Archaeological Sites**
 - 8 Sites Eligible for Local or National Register (NR)
- **Cultural Resources Assessment Survey of the Preferred Alternative**
 - Focus on NR-listed or eligible sites
 - Archaeological Survey will Focus on Relict Tree Islands

AGENDA

About MDX
Study Background
About the Study
Environmental Features
Study Coordination



Coordination



- Federal Highway Administration
- US Army Corps of Engineers
- Florida Department of Transportation
- Florida Department of Environmental Protection (FDEP)
- Miccosukee Tribe of Indians
- South Florida Water Management District (SFWMD)
- Florida Power & Light (FPL)
- CSX Transportation (CSX)
- Miami-Dade County
- Environmental Technical Advisory Team (ETAT)

Stay Involved

For more information please contact:

Ms. Tere Garcia

Public Information Officer

Phone: 786-277-9292

E-mail: tgarcia@mdxway.com

Project E-mail: 836swextension@mdxway.com



THANK YOU

