



MIAMI-DADE EXPRESSWAY AUTHORITY



FY 2015-2019 Work Program Overview

FEBRUARY 2014



- Advancement of projects in the FY 2015-2019 Five-Year Work Program is contingent upon implementation of toll rates approved in March 2013 and subsequent ability to issue new bonds.

About MDX



- MDX was enabled by the Florida Legislature in 1993 and created by ordinance of the Miami-Dade County Commission in 1994 (both have had minor modifications over the years)
- 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 Expressway
- 100 % of all tolls collected in the MDX system remain and are invested in Miami-Dade County
 - MDX was created to assure that all tolls collected in Miami-Dade County would stay under local control as an agency of the state

MDX Work Program



- MDX just as other transportation agencies in Miami-Dade County prepares a series of guiding documents:
 - MDX Long Range Master Transportation Plan (LRMTP)
 - ✦ This includes projects that MDX is examining for future inclusion in its work program. Projects are conceptual in nature and require significant planning including engineering, finance, and public acceptance
 - ✦ Projects must be included in Miami-Dade County Metropolitan Planning Organization Long Range Transportation Plan. (MPO LRTP)
 - ✦ The plan is updated every 5 years, same cycle as MPO
 - MDX Five Year Work Program
 - ✦ This includes all MDX projects that are included within the MDX financing plan and are financially feasible
 - ✦ The Work Program is updated every year

MDX Work Program



- **What is the MDX Five Year Work Program ?**
 - A 5-Year snapshot of the approved Work Program updated annually to reflect updated project costs and schedules, modified priorities and new projects. The financing plan is validated concurrently with the annual work program updates
 - The MDX Five Year Work Program becomes part of the MPO's Transportation Improvement Program which includes all the work program from all transportation agencies such as the Florida Department of Transportation, Miami-Dade Transit, Miami-Dade Public Works, Miami-Dade Airport and Seaport Departments
 - The Transportation Improvement Program reflects the expenditures of all these agencies in the different categories of capital improvements

Work Program Building Blocks



- What is the process to update the Work Program
 - Cost Estimates for all phases of projects are periodically updated using:
 - ✦ Latest project specific information
 - ✦ Latest Cost Estimating Methodology
 - Schedules are based on best understanding and reasonable forecast of:
 - ✦ Project specific issues and impacts from other ongoing projects and initiatives
 - ✦ Internal policies and procedures (timeline considerations for procurement, permitting etc.)
 - Operations & Maintenance projections are also included for existing and future facilities

Work Program Building Blocks



- Traffic and Revenue Projections are taken into account to project the revenue that will be available
 - Projected toll revenue forecast using:
 - ✦ Toll Rate Schedule and traffic volume projections
- A financial analysis is performed to evaluate the operational and capital funding needs vs. revenues over the program life
 - Cash Flow Analysis
 - Compliance with Bond Indenture coverage requirements
- Once the proposed Work Program has gone through all these steps it is presented to the MDX Board for approval prior to submitting to the MPO to be part of the TIP

What does the update include?



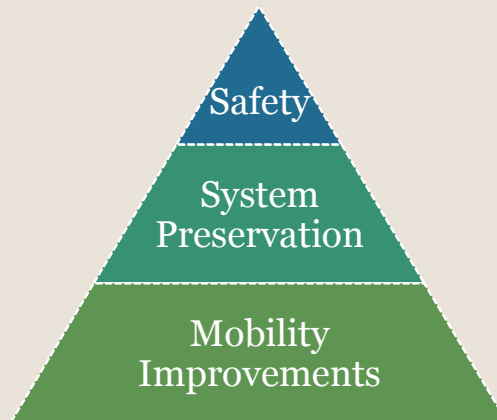
- **New projects**
 - New projects or phases of new projects that are financially feasible
- **Changes to approved projects**
 - Schedule shifts
 - Scope changes or cost modifications
- **Five-Year Cash Flow projections**
 - Including reconciliation of previous years expenditures

FY 2015-2019 Work Program

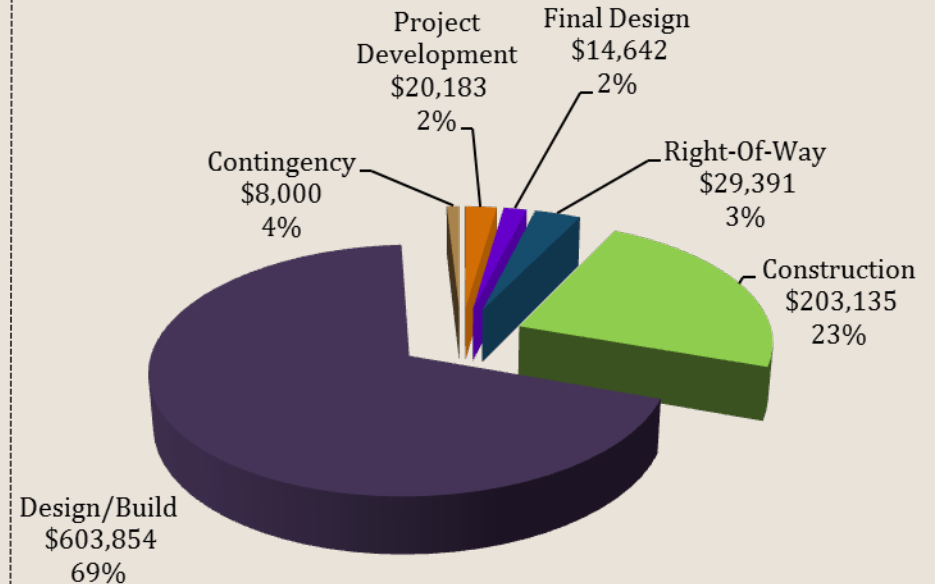
- Objectives

- Completion of ongoing projects
- Procurement of Open Road Tolling (ORT) System Integrator
- Advancement of Priority Projects

- Priorities



\$879.2 Million



All numbers in Thousands (\$000's)

Major projects recently added to the Work Program



- **SR 836 Interchange Modifications at 87th Avenue (83629)**
 - Added the construction phase (\$81.4 million)
- **SR 836 Operational, Capacity and Interchange Improvements (83628)**
 - Expanded the design-build and added the right-of-way phase (\$179.3 million)
- **SR 836 / I-95 Interchange Improvement (83611)**
 - Added the design-build and right-of-way phases (\$296.8 million)
 - A portion of the cost of this project is expected to be funded by FDOT
- **SR 874 Ramp Connector to SW 128th Street (87410)**
 - Added the design-build phase and expanded the right-of-way (\$108.7 million)
 - Accelerated schedule by approximately one year
- **SR 924 Extension West to the Homestead Extension of the Florida's Turnpike (HEFT) (92404)**
 - Added the final design phase and expanded the right-of-way (\$23.3 million)

Projects in Construction



SR 836 Interchange Modifications at 87th Avenue (83629)

- Modified connection to Palmetto Expressway
- Elimination of traffic weaving condition between WB collector road and entrance ramp from NB NW 87th Avenue to WB SR 836
- Advertisement in Spring 2014 and Construction Start in Fall 2014
- **Estimated cost \$89 million**

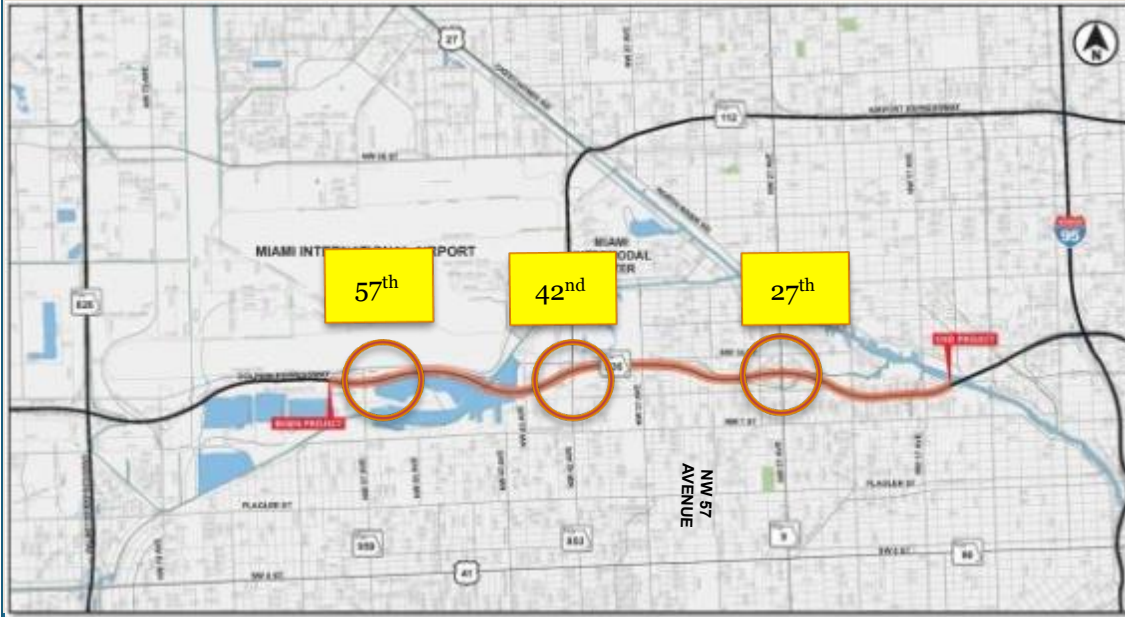


Advertised for Design/Build



SR 836 Operational, Capacity & Interchange Improvements (83628)

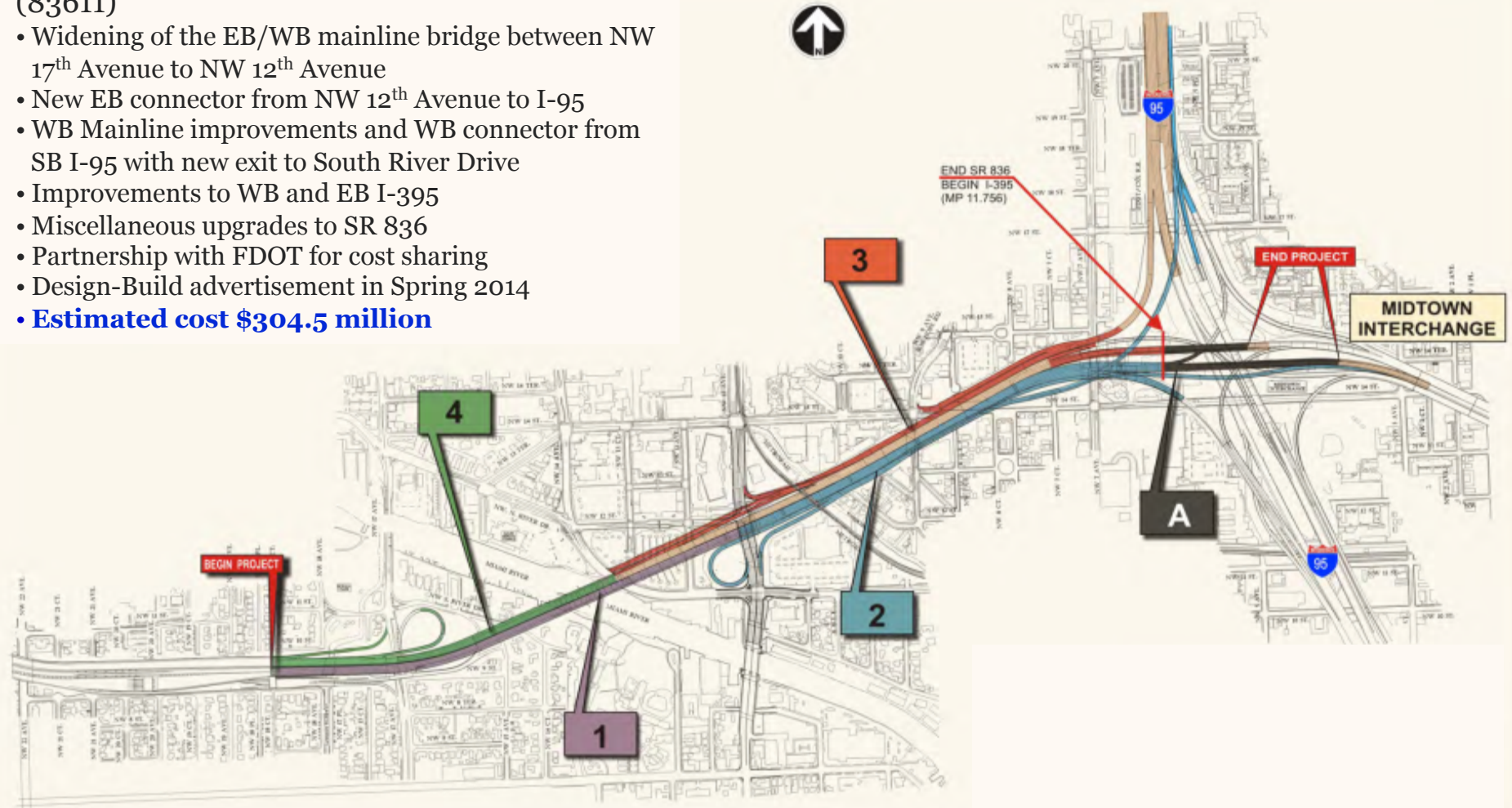
- Improvements to SR 836 from NW 57th Avenue to NW 17th Avenue to increase capacity and improve traffic flow on the most congested segment of SR 836
- New EB auxiliary lane from NW 57th Avenue to Le Jeune Road
- New EB lane from Le Jeune to NW 27th Avenue
- New WB lane from NW 17th Avenue to NW 57th Avenue
- Improvements to the SR 836 interchanges with 57th, 42nd, and 17th Avenues
- Design-Build start in Spring 2014
- **Estimated cost \$207.8 million**



Projects in Development

SR 836/I-95 Interchange Improvements (83611)

- Widening of the EB/WB mainline bridge between NW 17th Avenue to NW 12th Avenue
- New EB connector from NW 12th Avenue to I-95
- WB Mainline improvements and WB connector from SB I-95 with new exit to South River Drive
- Improvements to WB and EB I-395
- Miscellaneous upgrades to SR 836
- Partnership with FDOT for cost sharing
- Design-Build advertisement in Spring 2014
- **Estimated cost \$304.5 million**



Projects in Development/Construction



SR 874 Ramp Connector to SW 128th Street (87410)

- New 4-lane ramp connection
- Portion of project being constructed by Florida's Turnpike Enterprise (FTE) as part of their HEFT widening project within FTE's right-of-way
- Construction advertisement for remainder of project in Spring 2014
- **Estimated cost \$114.3 million**

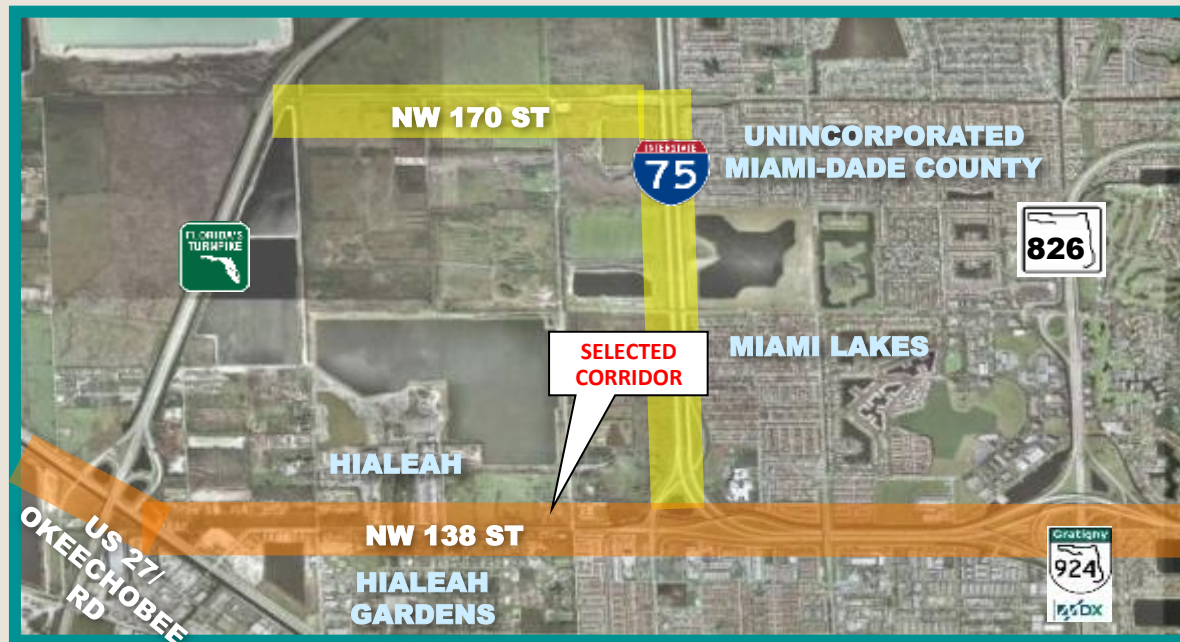


Projects in Planning



SR 924 Extension West to the HEFT (92404)

- New 2.3 mile expressway extension to the Florida's Turnpike in the vicinity of Okeechobee Road
- Improvements to NW 138th Street of \$11 million completed by City of Hialeah transferred to MDX
- Construction of entire project not yet funded
- Final design advertisement in Fall 2014
- **Estimated cost \$42.1 million**



Projects in Construction



Central Boulevard Reconstruction (11211)

- Main road connecting Miami International Airport with SR 836/Dolphin Expressway and SR 112/Airport Expressway
- MDX is partnering with the Florida Department of Transportation (FDOT)
- MDX is contributing up to \$35 million to FDOT to advance the project
- Completion in Spring 2014
- **Estimated cost \$70 million**

Projects in Construction



SR 836/SR 826 Interchange

Improvements (83608)

- MDX is partnering with the Florida Department of Transportation (FDOT)
- MDX is contributing over \$200 million to FDOT to advance the project
- Completion in Fall 2015
- **Estimated cost \$600 million**

Projects in Construction



SR 874 Mainline Reconstruction (87409)

- Mainline reconstruction of SR 874/Don Shula Expressway from Kendall Drive to SR 826/Palmetto Expressway
- Last phase of reconstruction of entire SR 874/Don Shula Expressway
- Includes widening of the roadway from 4 to 6 lanes, as well as resurfacing in anticipation of future traffic increase in the area
- Completion in Spring 2014
- **Estimated cost \$67 million**

Projects in Construction



Systemwide Implementation of Dynamic Message Signs (DMS) (10019)

- Installation of color DMS on the mainline and selected arterial locations
- Connectivity with existing MDX ITS backbone for system operations from the SunGuide Traffic Management Center at FDOT District 6 and MDX headquarters
- Installation of DMS confirmation cameras at each location and three incident management cameras
- Completion in early 2015
- **Estimated cost \$12.4 million**

Projects in Construction



SR 112 Modifications for ORT and Miscellaneous Upgrades (11209, 30030, 30031, 40027)

- Removal of existing toll plaza, installation of gantries with dynamic message signs and shelter
- Installation of overhead and ground mount signing on roadways leading to SR 112
- Milling and resurfacing of entire corridor
- Upgrades to Drainage and Lighting
- Safety improvements at NW 27th Avenue
- Completion in Fall 2015
- **Estimated cost \$29 million**

Projects in Construction



SR 836 Modifications for ORT – East (83624)

- Modifications to the existing toll plaza to accommodate ORT
- Installation of overhead and ground mount signing on roadways leading to SR 836
- Improvements to the interchange at 107th Avenue
- Completion in Spring 2015
- **Estimated cost \$27.2 million**

SR 836 Modifications for ORT – West & WB Access Ramp (83631, 83625, 30036)

- Modifications to the existing toll plaza and installation of gantries and signage
- Construction of public access ramp from NW 107th Avenue to the SR 836 WB extension
- Cleaning and coating of 16 overhead sign structures between NW 107th Avenue and NW 87th Avenue
- Completion in Spring 2015
- **Estimated cost \$18.7 million**

MDX Vision Projects in Planning

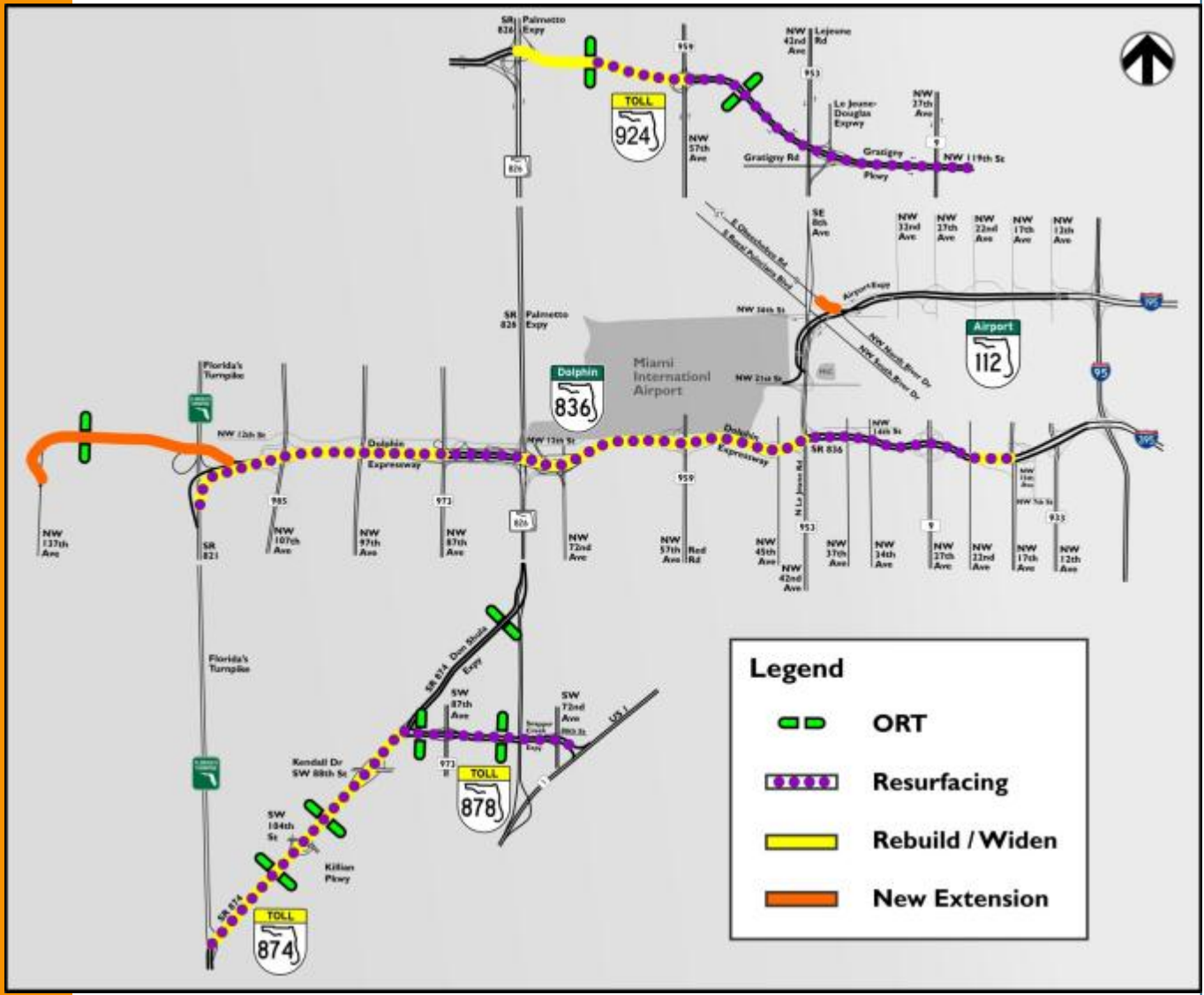


- In Project Development & Environment Study
 - SR 924 East Extension to I-95
 - US-1 Express
 - SR 836 Southwest Extension
- Other Vision Projects/ Planning Studies to start in 2015
 - Connect 4 Express



Work Program 2000 - 2014

- ✓ \$1.2 billion Invested
- ✓ 32 new lane miles added
- ✓ 87% of the system resurfaced
- ✓ ITS Network Installed
- ✓ Safety Improved
- ✓ Mobility Improved



Impact of MDX Investments to Date



- Estimated 12,600 jobs created
- Small and local business contribution
 - In fiscal year 2013, of the \$74.8 million paid in service contracts, 41% went to small and local business
- Congestion ranking improved to 13th place most congested (2011) from top ten in prior years [2012 Urban Mobility Report]
- Serves over one million people every day

How MDX Funds Projects

- MDX issues revenue bonds which allows for funding projects over time
- Toll revenue is pledged as collateral to ensure the repayment of the bonds principal and interest
- The cost of the project is paid over the same timeframe as the benefit is received by the user
- Current toll revenues are pledged to repay completed projects

- Where the money comes from



92%
Tolls and fees

8% Investment
income & other

- Where the money goes



75% Project
Funding

20% O & M
5% Administration

How MDX Funds Projects



- MDX primary source of revenue is the toll collected on its five expressways
- **MDX does not receive federal funds or the State Transportation Trust fund. It does not receive any gas tax, property tax, impact fees or county transit tax.** Only tolls collected on its expressways are used to fund maintenance, improvements and expansion of MDX' s system
- MDX borrows money by selling bonds and uses toll revenue as collateral, similar to a home mortgage loan where collateral secures the loan until fully paid in approximately a 30 year period

Questions and Comments



- If we are unable to answer all questions submitted, we will be sending an answer via email after the online meeting is completed.
- You can always submit questions and comments by emailing publiccomm@mdxway.com up to the end of the day Monday, February 24, 2014.
- All comments will be submitted to the MDX Board prior to their regular Board meeting on Tuesday, February 25, 2014.
- Pueden someter sus preguntas o comentarios en español a publiccomm@mdxway.com.

Thank you for participating!