

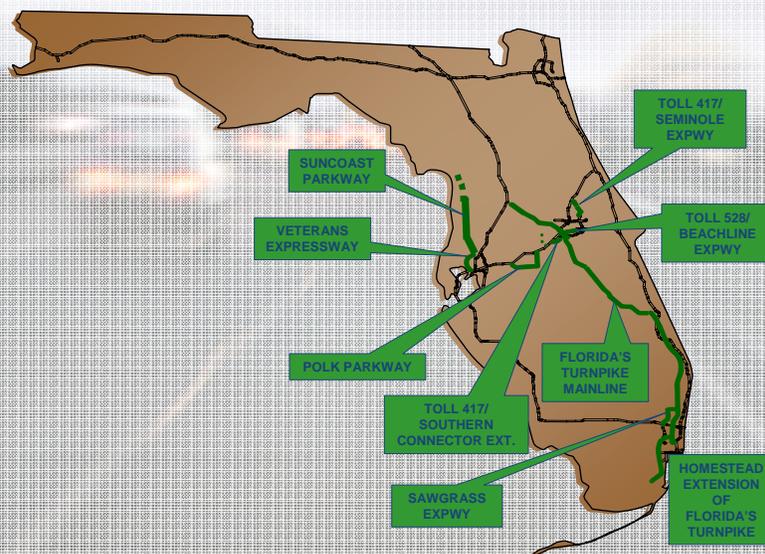
Florida's Turnpike Enterprise ITS Project Update



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Florida's Turnpike System





Existing ITS Programs & Initiatives



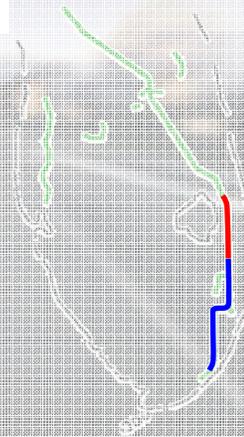
- Two Traffic Management Centers
 - 27 Permanent CCTV locations (plus 85 new Φ 2 locations)
 - 26 Dynamic Message Signs
 - 9 Highway Advisory Radio transmitters
- System-wide Fiber & ITS Instrumentation by 2008
 - CCTV & Detection Coverage plus Software Automation
- Partnering in Regional ATIS/511 Services
- Florida's Open Road Policy
 - Priority to Clear **ALL** Incidents in < 90 Minutes
 - Rapid Incident Scene Clearance (RISC)



Phase 2 Fiber Project (MP 75 - 155)



- 80 Miles of F.O.C. (96 strands)
- 85 CCTV Cameras
- Convert Existing DMS To Fiber Optic Communication
- Communication Links To FHP Dispatch Center in Lake Worth
- Includes 3 Spare Conduits
- Palm Beach Co. lease of extra conduit and 96 strands fiber
- Under Construction
- April '06 Final Completion Date



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Phase 2 Fiber Project (MP75 - 155)



Phase 3 Fiber Projects (Sawgrass Expwy)



- 22 miles – 3 Projects
 - DMS, CCTV, HAR & Detection Technologies (Radar, AVI)
 - Supports Open Road Tolling through Fiber Redundancy on Both Sides
- Design-Build NTP for 1st Project - (MP 0-8) given in March '05
- May '06 Completion of 1st segment
- Northern 2 Segments within Roadway D-B Widening/Reconstruction projects
- Total Completion by end of '07



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Phase 4 Fiber Projects (MP 155 – 227 and MP 227-309)

- 2 Projects – 154 Miles
 - 96 Strands Single-mode Fiber
 - Includes 160 CCTV Cameras
 - Convert Existing DMS To Fiber Optic Communications
 - Links Turnpike Campuses
 - Includes Toll Facility Drops
 - Includes 3 Spare Conduits
- Both are Under Construction
- Early '07 Completion

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Broward County CCTV Project (MP 40-54 and MP 67-73)

- CCTV Project within Phase 1 Limits
- Installs 1 Camera / Mile - - 18 Cameras
- Design-Build Contract awarded in November to Miller Electric Co.
- Feb. '06 Construction NTP
- Completion in January 2007
- Separate Infill Project will use leftover funds for CCTVs when Broward Widening permit between MP 54 and MP 67

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Central Florida ITS Improvements and Beachline/SR 528 Projects

- Project will deploy fiber, DMS, CCTV, vehicle detection and HAR for off-mainline facilities
 - Beachline Expressway/Toll 528
 - Seminole Expressway and Southern Connector/Toll 417
 - Western Beltway/Toll 429
- \$13.5M Programmed for Constr.
- Under Design by Metric Engineering
- Construction Letting in May '06 for Central Fla. and April '06 for SR 528
- Share District 5/OOCEA fiber for connectivity to Toll 417 & Toll 429



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West Florida ITS Improvements

- Project will deploy fiber, DMS, CCTV, vehicle detection and HAR
 - Veterans Expressway/Toll 589
 - Suncoast Parkway/Toll 589
 - Polk Parkway/Toll 570
- \$28M Programmed for Construction
- Under Design by URS Corp.
- Construction Letting in June '06



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South Florida Part A ITS Improvements

Intelli-Travel

- Finishes Fiber Optic Installation in South Florida
 - Homestead (MP 0 to MP 7)
 - Golden Glades Spur (MP 0X - 4X)
- Completes CCTV in Phase I Limits, Southern HEFT and GG Spur
- Incident Detection Systems (Radar and AVI-Travel Time) in Miami-Dade, Broward and Palm Beach Counties (MP 0 to 117 and Spur)
- Supplemental DMS and HAR Locations
- Design Underway by PBQD
- Letting Planned for Oct. '06



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DMS Project

- Additional 10 Mainline, 15 Toll Plaza Approach and 20 Arterial DMS within Entire Mainline Limits
 - Newer, Full Matrix Signs provide graphic capability
- Also includes Service Plaza Public Information Display System (PIDS) in 7 Locations
 - Expanded Version of Pompano Plaza Pilot Site
- \$13M Programmed for Construction Funding
- Under Design by DRMP
- Construction Letting in December '06



Vehicle Detection System (VDS) Project



- Covers Turnpike Mainline from MP 117 to 309
- Vehicle Detection System for detecting speed, volume and occupancy data (Non-intrusive technology)
- Travel Time System using AVI-Toll Tag Readers (next generation SunPass sticker tag)
 - Travel Times collected between DMS and Key Interchanges
- \$13M Programmed for Construction
- Under Design by Vanus
- Construction Letting in December '06



South Florida Part B ITS Improvements



- Covers Tri-County Area, including possible Sawgrass (ORT) ITS Components
- Piggy-backs on Fiber Infrastructure to Deploy a Wireless System for Communications to:
 - FHP and Road Rangers
 - DOT Maintenance Vehicles
 - Potentially to the Customers' Vehicles
- \$10M Programmed for Construction in Fiscal Year 2008
- Concept Report is under Preparation
- Need to select a Wireless Option (e.g. Wi-Fi, Broadband), Field Equipment & Type of Traffic Data to be transmitted
- Design Contract in 2007 and Construction Letting in 2008



Other TMC & ITS Supportive Aspects



- **NAVIGATOR** To SunNavSM Conversion

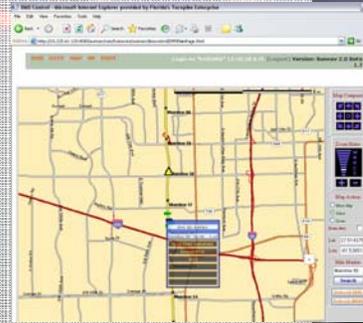
- SunNav 1.2 Release (12/04)

- NTCIP Drivers for DMS
- DMS GUI Field Sorting

- SunNav 2.0 (1/06)

- Web-Based XML Release
- NTCIP Camera Driver
- 2-way Replication of Data
- Detection Drivers
- GIS Map Upgrade
- Response Plan Upgrade
- Road Ranger Dispatch/Reporting

- SunGuide – C2C (5/06)



What's Next?



- New Turnpike PIO Website with Real-time Traffic Info - www.floridasturnpike.com
 - Live in April '06
- Public Traffic Information Displays in Service Plazas
 - Pompano Pilot Installed
 - CCTV feeds
 - Emergency Info if needed
 - Promotion of 511 and SunPass





Continued Measurement in Key Enterprise Areas of Focus



- Safety
- Service
- Speed
- Soundness
- Staff



Questions?



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