



# FDOT Traffic Engineering and Operations Office

## Intelligent Transportation Systems Program

Annual Report –  
Fiscal Year 2003-2004







JEB BUSH  
GOVERNOR

# Florida Department of Transportation

605 Suwannee Street, MS90 Tallahassee, FL 32399-0450

JOSE ABREU  
SECRETARY

Dear Reader:

Fiscal Year '03/'04 marked another successful year for the ITS Program. All of the program areas marked significant milestones during the course of the year.

Several key accomplishments were achieved this year, including the *Ten-Year ITS Cost Feasible Plan (CFP)* update performed in October 2003. This update included providing additional projects from funds returned by the Districts, and adding a new tenth year to the CFP with \$30 million provided from FDOT's *Five-Year Work Program*. Currently, the funding level of the CFP is \$526 million.

The ITS Section also continued to support District 5's implementation of a FHWA grant for the Surface Transportation Security and Reliability Information System Model Deployment Initiative, entitled *iFlorida*. The ITS Section assisted District 5 in completing Phase I and continues to support Phase II of the *iFlorida* deployment which provides the design and contract documents to implement the various systems and components described in the grant application.

Other key accomplishments included commissioning a successful center-to-center pilot project, uniting regional transportation management centers. A fiber optic/microwave connection between Districts 2 and 5 will allow the Districts to assist each other during incidents and emergency operations. In addition, the Everglades Radio Network was installed, providing information about the history, nature, environment, and restoration efforts as well as traffic bulletins, traffic blockages, smoke, weather-related conditions, and hurricane evacuation information.

The ITS Section teamed up with ITS Florida to exhibit at the 14<sup>th</sup> ITS America Annual Meeting and Exposition in San Antonio, Texas. ITS America awarded the Best of ITS Award For Marketing and Outreach to the ITS Section. The success of the ITS Working Group Meetings earned this award for the ITS Section. The ITS Section also convened three ITS Working Group Meetings, and exhibited at the ITS Legislative Awareness Day and at the National Rural ITS Conference in Palm Harbor.

In December 2003, the Traffic Operations Office and the ITS Office were combined, aligning the two offices with the District organizational structure in these program areas. The ITS Office is now known as the ITS Section under the recently renamed Traffic Engineering and Operations Office.

The ITS Program has grown tremendously over the years, and we look forward to even greater growth during the coming years. I hope you find the information in this annual report interesting and informative. As always, your input on our ITS Program is of great importance to us.

*Elizabeth Birriel*

Elizabeth Birriel, PE  
Deputy State Traffic Operations Engineer  
ITS Program Manager







# Florida's Transportation Future

## Growth

Over the past 20 years, transportation demand in Florida has grown at a rapid pace. It is anticipated that this growth will continue to accelerate. Consider the following statistics:



## Population

(Source: U.S. Census Bureau)

- Florida has the fourth highest population in the nation.
- Florida's population increased by 6.2 million, or 64 percent, between 1980 and 2000, and is projected to increase to more than 21 million by 2020, a 36 percent increase from 2000 levels – twice the projected national growth.

## Tourism

(Source: Visit Florida)

- Florida is the leading national tourist destination for the entire United States and ranks third as an international tourist destination.
- More than 76 million out-of-state tourists came to Florida in 2003, and over 100 million are projected by the year 2020.



## Commerce

(Source: New Cornerstone, 2003)

- Along with tourism, Florida has an active trade, agricultural, and aerospace industry.

- The service sector accounted for 38 percent of all jobs in 2000; while the trade sector accounted for 25 percent.
- Florida ranks fifth in the nation for high-tech jobs, and Orlando, in the "High-Tech Corridor," has been ranked as the nation's top location for starting a business.

## Vision

To ensure that Florida's transportation system meets future demands, the Florida Department of Transportation (FDOT) is working to achieve the following mission:

### FDOT's Mission

*Provide a safe transportation system that ensures the mobility of people and goods, enhances economic prosperity and preserves the quality of our environment and communities.*

To achieve this mission, four primary goals were established – safety, systems management, economic competitiveness, and quality of life.

FDOT established an Intelligent Transportation Systems (ITS) Office in July, 2000, to help achieve these goals and coordinate deployments statewide. Having made great strides in achieving these goals, the ITS Office merged with the Traffic Engineering and Operations Office in December 2003.





## ***FDOT's ITS Program Mission***

*To provide effective Intelligent Transportation Systems for Florida's travelers that enhances the safety and mobility of people and goods, economic competitiveness, and the quality of our environment and communities by serving commuters, tourists, commercial vehicles, and evacuees.*

## ***FDOT's Commitment to ITS***

FDOT maintains a State Highway System of more than 12,000 centerline miles of streets and highways and, according to the FDOT *Five-Year Work Program*, \$5.43 billion was budgeted in this fiscal year to support Florida's transportation needs. As part of its annual program, FDOT made significant investments in ITS and is committed to investing \$745 million in ITS between 2003 and 2013.

# **FDOT's ITS Program Areas**

FDOT's Traffic Engineering and Operations Office coordinates and promotes the deployment of ITS throughout Florida. There is a dedicated ITS staff of 22 members led by Elizabeth Birriel, Deputy State Traffic Engineer – ITS Program Manager.



Florida's ITS is organized into four ITS Program Areas:

- ITS Management/Deployments – *Gene Glotzbach, P.E., ITS Administrator;*
- ITS Architecture, ITS Standards, Software, Research, and Training – *Liang Hsia, P.E., ITS Administrator;*
- Commercial Vehicle Operations and Electronic Toll Collection – *Michael Akridge, ITS Administrator;* and
- Telecommunications Program Management – *Nick Adams, ITS Administrator.*

## **Major ITS Program Initiatives**

### ***ITS Management/Deployments***

- Promote a corridor approach to ITS deployments on Florida's limited-access corridors, develop standards, and implement a systems engineering process to support procurement and deployment of ITS;
- Deploy advanced traveler information systems and 511; and
- Provide technical support and assistance to FDOT's District Offices and other partners.

### ***ITS Architectures, ITS Standards, Software, Research, and Training***

- Manage the development of the SunGuide<sup>SM</sup> Software System for freeway and incident management;
- Update and maintain the *Statewide ITS Architecture;*
- Develop and update statewide ITS standards and specifications;







- Coordinate statewide ITS professional capacity building to provide a qualified work force for ITS deployments; and
- Coordinate and manage the statewide data warehouse research project to enhance advanced traveler information systems and performance monitoring.

### ***Commercial Vehicle Operations and Electronic Toll Collection***

- Support deployment of information and communications technologies to serve commercial vehicles and promote electronic payment and credentialing systems;
- Guide deployment of the Commercial Vehicle Information Systems and Networks infrastructure and infostructure to assist both state and motor carrier communities;
- Continue support of the Cooperative Vehicle Highway Automation System program; and
- Continue research in the use and deployment of transponders and other communications devices as probes for real-time traffic data and statistics for planning.

### ***Telecommunications Program Management***

- Guide deployment of a communications backbone to serve ITS deployments on major corridors;
- Upgrade the capacity of the Statewide Microwave Network to support ITS deployments;
- Manage the maintenance program for the Statewide Microwave Network to support

ITS deployments, motorist aid call boxes, and various ITS research initiatives;

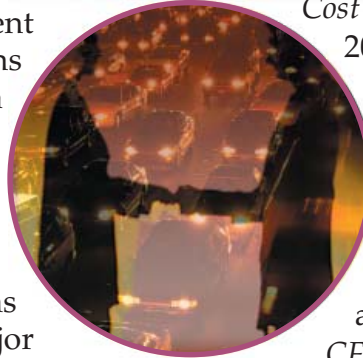
- Manage the Federal Communications Commission radio license database; and
- Manage the Lodestar/SpectraSite contract, a resource sharing public/private partnership which places commercial wireless carriers on FDOT rights-of-way.

## **Accomplishments**

Florida's accomplishments in ITS are numerous. The following is a list of recent major accomplishments for Fiscal Year 2003-2004.

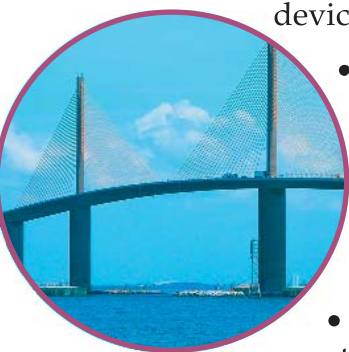
### **ITS Program Management/Deployments**

- The ITS Section updated the *Ten-Year ITS Cost Feasible Plan (CFP)* in October 2003. The ITS Section was able to accommodate changes in District funding requirements, combine projects to better meet production schedules, provide additional projects from funds returned by the Districts, and add a new tenth year to the CFP with \$30 million provided from FDOT's *Five-Year Work Program*. To date, the funding level of the CFP is \$526 million. The CFP is located on the ITS Section Web site at [www.dot.state.fl.us/IntelligentTransportationSystems](http://www.dot.state.fl.us/IntelligentTransportationSystems).





- The ITS Section provided support to all District Traffic Operations and Work Program staffs to update the CFP projects in FDOT's *Five-Year Work Program*.
- The ITS Section is supporting District 1 Traffic Operations, Construction, and Contractual Services Offices in the preparation and development of the design-build request for proposal (RFP) package for the Interstate 75 corridor plan sets to be utilized in the design-build RFP package, and will provide the boilerplate language to be utilized in the contractual document.
- The ITS Section is supporting District 2's Traffic Operations Office by providing construction, engineering, and inspection assistance for District 2's Phase IV Interstate 95 North ITS Expansion in Jacksonville. The ITS Section will support the District by providing plan and submittal reviews, attending meetings, and participating in field reviews to assist in the selection of proposed locations for ITS field devices.



- The ITS Section is providing District 7 with assistance in reevaluating and updating the Skyway Bridge lightning protection plan.
- The ITS Section continues to support District 5's implementation of the FHWA grant for the Surface Transportation Security and Reliability Information System Model Deployment Initiative, entitled *iFlorida*. The ITS Section

## iFlorida

assisted District 5 in completing Phase One's planning and design elements, including the development of a high-level work plan, operational concept, systems requirements document, systems design support, and a deployment plan. The ITS Section continues to support Phase II of the *iFlorida* deployment which provides the design and contract documents to implement the various systems and components described in the grant application. More information regarding *iFlorida*, may be viewed on the project Web site at [www.iFlorida.net](http://www.iFlorida.net).

- The ITS Section has been instrumental in successfully promoting 511 traveler information in Florida as reflected by over 2.5 million calls placed to the 511 traveler information phone number in the Southeast Florida and Orlando areas. In May 2004, an agreement was reached with Verizon Wireless to make the 511 traveler information phone number available to their customers. The ITS Section assisted in drafting the rule language passed during the 2003 legislative session, which provided controlled and orderly statewide deployment of 511. The ITS Section also organized and implemented the Florida 511 Working Group to resolve any 511 issues. The American Association of State Highway and Transportation Officials awarded

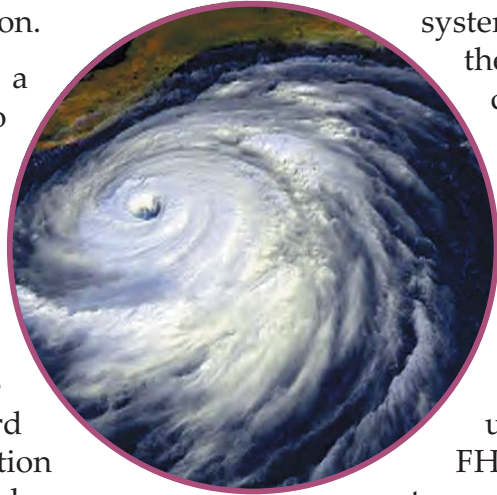






the ITS Section in recognition of operation of a 511 traveler information service, and for guiding development and advancement of 511 services across the nation.

- The ITS Section established a Change Management Board to control any changes needed to various ITS deployments. A Change Management Process was established and approved. A Prescreening Committee and permanent nonvoting members to the Change Management Board were selected. The ITS Section participated in the first change request, approval of Engineering Change Proposal 1 (ECP1), to modify the requirements of the Statewide Transportation Management Center Software Library System contract.
- The ITS Section developed draft ITS device standards and specifications to support deployment of ITS on Florida's limited-access facilities. The *Standards, Specifications, and Estimator Processor (SSEP)*, a Web-based tool for housing and accessing the standards and specifications, was developed by the ITS Section and is located on the ITS General Consultant's project Web site at [www.FloridaITS.com](http://www.FloridaITS.com).
- The ITS Section is completing Phase II of the *Systems Engineering Management Plan (SEMP)*.



The *SEMP* will enable ITS engineers to manage a project using systems engineering principles and methods to maximize the quality of the system being implemented while minimizing the budget and schedule required for its completion.

- The ITS Section and the Florida Department of Community Affairs, Division of Emergency Management (DEM), completed work on the Hurricane Evacuation Analysis Decision Support Utility Program (HEADS-UP), a prototype graphical user interface (GUI) funded by a FHWA grant. HEADS-UP was designed to provide emergency managers with tools to estimate evacuation time and traffic volume information necessary to properly plan an evacuation. A systems flow chart outlining the HEADS-UP screens was completed along with the Help document. The beta 1 version of HEADS-UP was installed on the DEM Intranet server for review and testing by staff.
- The ITS Section is creating an approved products list (APL) for ITS field devices. This APL will supplement the Traffic Engineering Research Lab's (TERL) APL for traffic control devices. This effort will develop procedures for an application and vendor submittal process, verification of vendor qualifications, testing procedures, and a notification process. A plan to conduct follow-up reviews on an annual basis will also be developed.

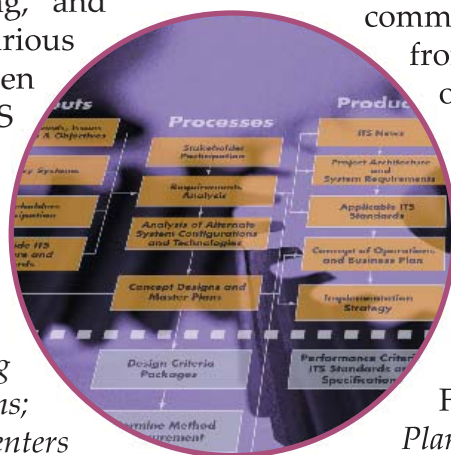






- The ITS Section is developing a statewide quality assurance (QA) plan for ITS deployments. A draft of this plan has been completed and is under final review. This plan will help assure the interoperability of over 2000 ITS field devices which will have been deployed at the end of the term of the *Ten-Year ITS Cost Feasible Plan*.
- The ITS Section continues to update the *Florida ITS Strategic Plan (Strategic Plan)*, originally completed in 1999. The purpose of the *Strategic Plan* is to guide FDOT and Florida's Metropolitan Planning Organizations in planning, programming, deploying, and integrating multi-modal ITS services. Various documentation for this effort has been completed and may be viewed on the ITS General Consultant's project Web site at [www.FloridaITS.com](http://www.FloridaITS.com).
- The ITS Section developed a number of papers needed to provide direction and/or clarify issues regarding ITS deployment. These papers include: *Using Data from ITS in Managing Evacuations; Florida's Transportation Management Centers and Collocation; Florida's Contracting Policies and Systems Manager Approach; Pole Height and Locations for Video Surveillance Systems; and Roadside Mounting of Video Image Detection Systems*. These papers may be viewed on the ITS General Consultant's project Web site at [www.FloridaITS.com](http://www.FloridaITS.com).

## ITS Architectures, ITS Standards, Software, Research, and Training



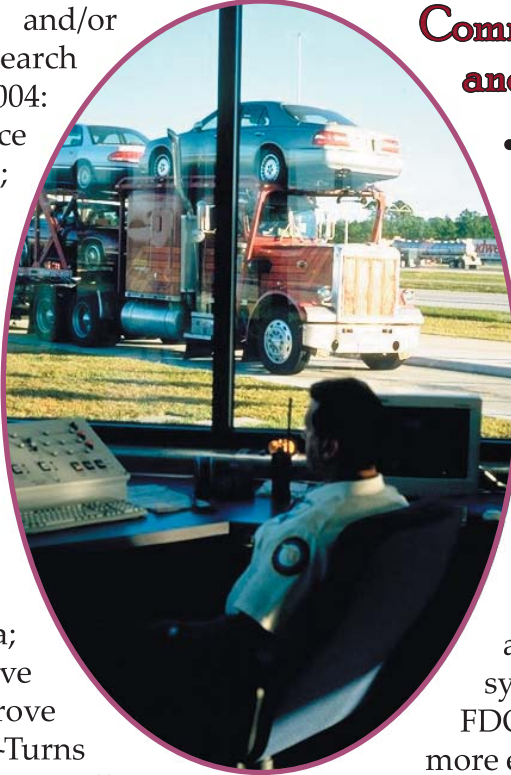
- The SunGuide<sup>SM</sup> Software System Technical Evaluation Committee and Executive Selection Committee identified statewide requirements. The SunGuide<sup>SM</sup> Software System will include software, hardware, and center-to-center interfaces throughout the state of Florida.
- A Draft *FDOT Guidelines for the Implementation of Rule 940 in Florida (Guidelines)* was developed and posted on FDOT's Web site for statewide review and comments. FDOT received comments from the Central and District offices, and the participating Metropolitan Planning Organizations. The *Guidelines* were prepared for statewide ITS deployments using regional ITS architectures. The *Guidelines* will also be used for identifying ITS components in FDOT's *Long Range Transportation Plan*.
- The ITS Section worked on harmonizing the *Statewide ITS Architecture* with corridor ITS architectures;
- The ITS Section worked with the FDOT Systems Planning Office to develop a preprocessor for the ITS Deployment Analysis System (IDAS). The ITS Section manages the ITS costs and benefits customization project.







- The ITS Section sponsored and/or managed the following research projects for fiscal year 2003/2004: Airborne Traffic Surveillance Systems: Proof of Concept; Development of a Road Weather Information System for Florida's Intelligent Transportation Systems; Central Florida Data Warehouse; Toll Network Capacity Calculator Validation and Enhancement; Feasibility Study for an Integrated Network of Data Sources; Linking Crash Patterns to ITS - Related Archived Data; Selecting the Most Effective ITS Applications to Improve Pedestrian Safety; Triple Left-Turns at Signalized Intersections; Traffic Engineering Software Tools; and Commercial Vehicle Inspection Stations.



## Commercial Vehicle Operations and Electronic Toll Collection

- In July 2003, the ITS Section assisted the FDOT State Maintenance Office in implementing an automated permitting system. The permitting system is very user-friendly and allows the automation of about 90 percent of the permit applications. The other 10 percent require analysis by FDOT engineers. This system has increased flexibility, allowing review of a requested route by segment rather than a pass/fail of the entire route request, as was the case with the old manual system. By automating the process, FDOT is able to utilize staff resources more efficiently. When comparing the time to issue a permit under the old manual system to the new automated permitting system, the ratio is 10:1 – a ten-fold increase in efficiency.

- The ITS Section convened and coordinated the following training sessions for fiscal year 2003/2004: Project Management with Primavera P3ec; ITS Standards Overview; ITS Standards: Center-to-Center Communications; ITS Standards: Dynamic Message Signs; ITS Standards: Actuated Traffic Signals; Negotiation Workshop; and Technical Writing and Editing Workshop.



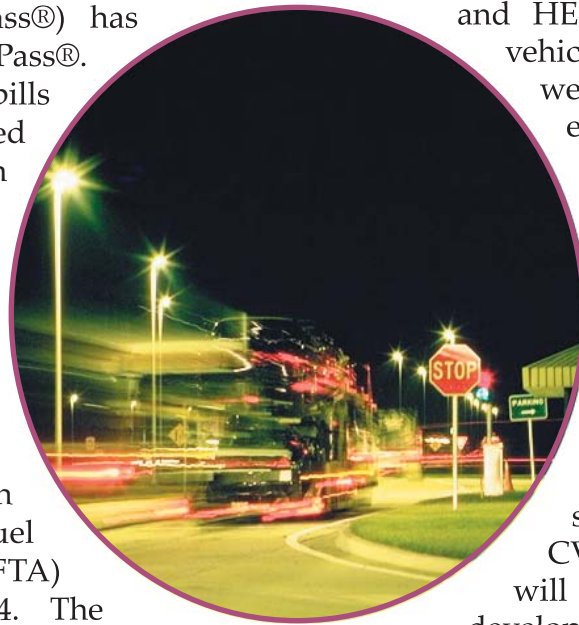
- During this fiscal year, the Florida Department of Agriculture and Consumer Services (DACS) saw a large increase in the number of commercial carriers participating in AgPass®, a pre-clearance program – an additional 418 carriers joined AgPass®. AgPass® is a part of Florida's Commercial Vehicle Information Systems and Networks (CVISN) which allows carriers that do not transport







agricultural products to bypass DACS's interdiction stations. By decreasing the volume of carriers passing through the stations DACS has been able to keep up with the increased carrier volume without hiring additional staff. The Department of Revenue's (DOR) Bill of Lading program (which is a requirement for participation in AgPass®) has also seen benefits from AgPass®. A review of the electronic bills of lading by DOR resulted in collection of \$194,000 in unpaid sales and use taxes for the fiscal year and collection of \$450,000 in the 2003 calendar year.



- The Department of Highway Safety and Motor Vehicles (DHSMV) began participation in the International Fuel Tax Agreement (IFTA) Clearinghouse in May 2004. The IFTA Clearinghouse manages the flow of credentials data and funds among participating jurisdictions (states and Canadian provinces). The IFTA Clearinghouse data includes updated fuel tax rates, carrier demographic data, and carrier transaction information. Participation in the IFTA Clearinghouse facilitates the transfer of necessary information between the Florida IFTA system and the clearinghouse.
- The FDOT Motor Carrier Compliance Office (MCCO) has installed HELP/PrePass®, an electronic pre-clearance program, at another weigh station, bringing the total number of weigh stations offering this service to 17.

This new installation was at Islamorada in the Florida Keys. Two more HELP/PrePass® installations are planned in the next fiscal year; they will be at the Pensacola weigh stations (in both directions). From January through April 2004, HELP/PrePass® has recorded a total of 3,429,488 vehicles with PrePass® transponders; and HELP/PrePass® has kept 2,842,628 vehicles on the mainline bypassing weigh stations. This has enabled the enforcement officers to target more questionable vehicles.

- The ITS Section's CVISN Program is completing an information systems inventory of all systems involved with the regulation of the commercial vehicle industry in Florida. The inventory will provide a "snapshot" of all hardware and software utilized by each of the CVISN agencies. This information will be utilized in future projects to develop new systems and databases linking each of the existing agencies' databases for use by law enforcement.
- The ITS Section assisted in the implementation of an automated telephone system and Web site for Florida's commercial vehicle operations (CVO) which will enhance customer service. With this combination, the trucking community only needs to remember one telephone number (850-414-4700) and/or a Web address ([www.FloridaTruckingInfo.com](http://www.FloridaTruckingInfo.com)) in order to receive information from, or be transferred to, any Florida CVO regulatory agency. The telephone component went online in August 2003 and the

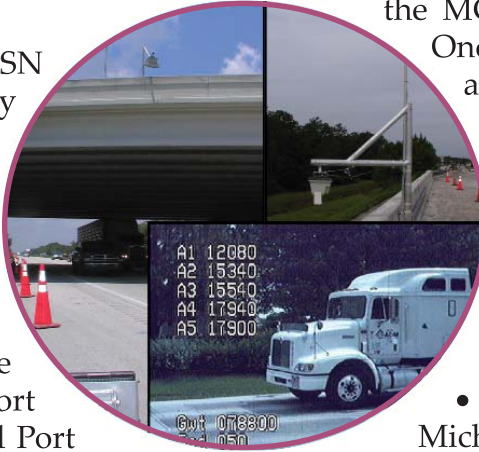






Web site in April 2004.

- The ITS Section's Florida CVISN Program kicked off three very important projects this past fiscal year. In an effort to enhance traffic management for commercial vehicles at Florida's port facilities and to improve security in a coordinated manner among the Florida ports, three ports (Port of Miami, Port Everglades and Port of Palm Beach) will deploy the Freight Information Real-Time System for Transport (FIRST). This system, originally developed by the Port Authority of New York and New Jersey, is an Internet-based, real-time network that integrates numerous resources into one, easy-to-use Web site that facilitates the exchange of port and cargo information. This project will be a cooperative effort of the CVISN Program, the Florida Ports Council, the involved ports, and the Port Authority of New York and New Jersey (PANY&NJ).
- Under the ITS Section's Florida CVISN Program, FDOT's MCCO and the Florida Department of Highway Safety and Motor Vehicles (DHSMV) will update their current fax-based cargo theft alert system to an Internet-based system. These agencies have partnered with the University of Central Florida to develop this new Internet-based system which will be accessible by law enforcement officers from in-vehicle laptops. This system will allow officers to enter status information into a database for use by other officers.
- The ITS Section's Florida CVISN Program is implementing a bypass detection system near



the MCCO weigh stations at Punta Gorda. Once implemented, this system will detect and record information on commercial vehicles that have bypassed the weigh station. Law enforcement officers will be made aware of the commercial vehicles bypassing the weigh station and they will be able to remotely review the data on the vehicles and take appropriate actions.

- The ITS Section's CVO Administrator, Michael Akridge, has completed his tenure as the chair of ITS America's Commercial Vehicle Freight Mobility Forum.

## Telecommunications Program Management

- Development of the statewide center-to-center (C2C) network progressed during this fiscal year. A *Functional and Communications Requirements* report was completed which summarizes the findings of District workshops, presents a C2C network concept of operations, reviews key national standards for incorporation in the network, and documents network requirements in cooperation with the SunGuide<sup>SM</sup> Software System.
- A C2C pilot project was successfully commissioned during this fiscal year. This project

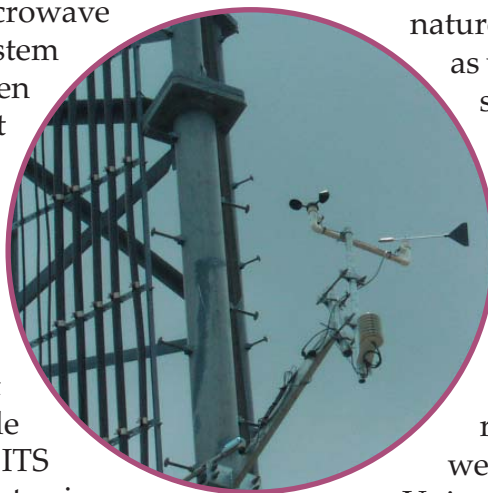






unites regional transportation management centers (RTMCs) and provides infrastructure to create more integrated and effective statewide transportation management. A fiber optic/microwave connection was designed and constructed between the District 5 Orlando and District 2 Jacksonville RTMCs. This connection uses District-installed fiber optic infrastructure and bandwidth employing the Statewide Microwave System to allow sharing of traffic data and video. This connection will enable regional cooperation in transportation management where Districts can assist one another with daily routines, incidents, and emergency operations.

- Three projects are underway to upgrade the capacity and operational effectiveness of the Statewide Microwave System, and a fourth was designed and is ready for letting. The first project upgrades physical facilities at various locations and is 95 percent complete. The second project upgrades the microwave network's management system and software, and has been completed. The third project reconfigures this network, upgrades the timing and synchronization, and replaces microwave radios at several locations. This project is 90 percent complete. The fourth project will install a statewide data network to support ITS deployments. This project is scheduled for completion within the next fiscal year.



- Construction was completed on two Lodestar/SpectraSite towers located in Duval County. Under the FDOT/Lodestar towers public/private partnership, 29 towers have been completed to date and 39 commercial wireless subleases are in effect.



- The Everglades Radio Network was installed and commissioned along I-75 in Collier County. This new radio service provides unique information to motorists traveling along I-75 through the Florida Everglades. Motorists tuning into the FDOT's new radio stations at 98.7 and 107.9 FM will receive information about the history, nature, environment, and restoration efforts as well as traffic bulletins, traffic blockages, smoke, weather-related conditions, and hurricane evacuation information. The ITS Section assisted in designing and constructing the network, and shares operating and programming with the Florida Department of Environmental Protection.
- The ITS Section continued work on research projects to develop roadway weather information systems with the University of North Florida and Florida State University. Progress was made in investigating the relationships between atmospheric effects (i.e., humidity, temperature, and pressure) and signal fades experienced by microwave paths in







the Statewide Microwave System. Atmospheric propagation guidelines used to design and maintain microwave paths will be developed. Design of a road-specific weather prediction system is also being investigated as part of the research.

- The ITS Section initiated several facility upgrade projects during this fiscal year. A project to add emergency power backup generators was designed and is under construction. A project to install repeater radios to provide enhanced coverage and reliability to the statewide maintenance radio system has been designed and is out for bids. A third project to replace a radio tower at the North Dade maintenance yard is in final design.



- The ITS Program exhibited at the National Rural ITS Conference in Palm Harbor, Florida, on August 10-13, 2003. The conference theme was, "What's Going on in Rural ITS and Who's Doing It?"
- The ITS Program exhibited at the International Conference on Virtual and Remote Weigh Stations and at the ITS America Commercial Vehicle and Freight Mobility Forum held February 16-20, 2004, in Orlando, Florida.
- The ITS Program exhibited at the ITS Legislative Awareness Day on March 17, 2004. The ITS Legislative Awareness Day is an annual event which gives Florida legislators a chance to see ITS up close and view the future of ITS in Florida.



## ITS Program Administration



- The ITS Section Program Administrators serve on numerous national program committees, including those with the I-95 Corridor Coalition, the 511 Deployment Coalition, and ITS America, among others.

- The ITS Program assisted ITS Florida with its exhibit at ITS America's 14<sup>th</sup> Annual Meeting and Exposition in San Antonio, Texas, in April 2004. The conference theme was, "At the Crossroads: Integrating Mobility, Safety and Security."



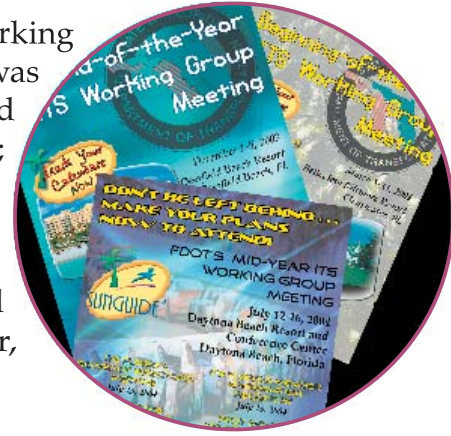




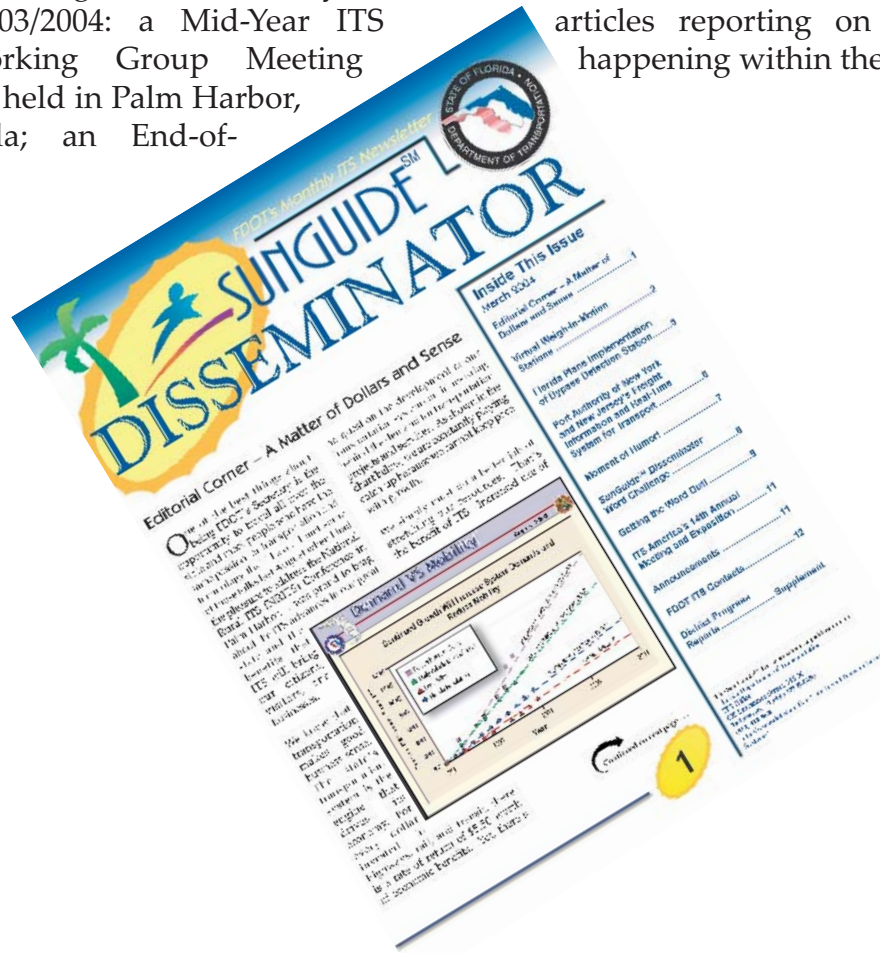
The ITS Program was awarded the Best of ITS Award under the Marketing and Outreach category at ITS America's 14<sup>th</sup> Annual Meeting and Exposition. The ITS Section submitted its successful ITS Working Group Meetings as an example of what it is doing to showcase ITS in the state of Florida.

- The ITS Program convened three ITS Working Group Meetings in fiscal year 2003/2004: a Mid-Year ITS Working Group Meeting was held in Palm Harbor, Florida; an End-of-

the-Year ITS Working Group Meeting was held in Deerfield Beach, Florida; and a Beginning-of-the-Year ITS Working Group Meeting was held in Clearwater, Florida.



- The ITS Program publishes the *SunGuide<sup>SM</sup> Disseminator*, a monthly ITS newsletter. The *SunGuide<sup>SM</sup> Disseminator* is a collection of articles reporting on ITS-related matters happening within the state of Florida.







## Partnerships

The key to successfully deploying ITS in a state as large and diverse as Florida is providing for ongoing participation of countless individuals, public agencies and organizations, and private companies in ITS planning and development. In addition to the professionals in FDOT's seven Districts, Florida's Turnpike Enterprise, and the Traffic Engineering and Operations Office, the following groups have fostered the cooperative spirit that advances Florida's vision for ITS:



- ITS Stakeholders
- ITS Working Group
- ITS Florida
- ITS Florida Advisory Committee
- Turnpike and Expressway Authority Members (TEAM) Florida
- Orlando Regional ITS Consortium
- Miami-Dade Regional Transit Organization
- CVO/CVISN Team

### Public/Private Partnerships

- SunGuide<sup>SM</sup> ATIS Partnership in South Florida
- Tampa Bay SunGuide<sup>SM</sup> Traveler Information System
- Lodestar/Spectrasite Wireless Towers
- iFlorida



## Florida ITS Benefits

To determine the effectiveness of the proposed ITS services for the Florida Intrastate Highway System facilities, the following ITS benefits were identified from studies around the country and were determined to be applicable to Florida's limited-access facilities:

- A 5 percent decrease in delay is anticipated as a result of incident management systems.
- A 15 percent reduction in injury-related accidents and fatalities is anticipated as a result of freeway management systems (FMS).
- A 35 percent reduction in property-damage accidents is anticipated as a result of FMS.
- A 7:1 benefit-to-cost ratio is anticipated for some of the commercial vehicle operations that will be deployed in FDOT's Commercial Vehicle Information Systems and Networks program and the virtual weigh-in-motion pilot.
- Benefits associated with advanced traveler information systems (ATIS) include reductions in travel time and operating costs. Additional benefits are anticipated from congestion avoidance and improvement in the quality of driver convenience. However, the greatest benefits of ATIS are improved customer service and providing drivers with the opportunity to avoid congestion.
  - Benefits associated with smart work zones are anticipated to include reductions in travel time and operating costs, reductions of accident rates and the severity of accidents in work zones, and improvement in the quality of driver information.

ITS projects in Florida will provide significant benefits by *saving lives, time, and money* for travelers and commercial vehicles!







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