



SUNGUIDE® DISSEMINATOR

FLORIDA DEPARTMENT OF TRANSPORTATION'S TRAFFIC ENGINEERING AND OPERATIONS NEWSLETTER



Connected Vehicle Corner

By Fred Heery, P.E., State TSM&O Program Engineer;
Connie Stehling, Project Administrator, TSM&O Section

Overview

Connected vehicles use networked wireless technologies to talk to personal communication devices, other vehicles on the road (vehicle-to-vehicle or "V2V"), and roadside infrastructure (vehicle-to-infrastructure or "V2I"). Connected vehicle technology can be used to reduce crashes, improve safety, traffic efficiency and commute times.

An autonomous vehicle is a computer-controlled car that drives itself without the aid of a driver. Crash avoidance is a major incentive because a vehicle's technology can respond faster than a driver and is free of typical driver distractions.

Connected and Automated vehicle technologies overlap, and to have a fully automated vehicle, the vehicle must also be a connected vehicle.

Dedicated Short Range Communications (DSRC) Roadside Unit (RSU) Specifications Version 4.1

The Federal Highway Administration released the final version of the DSRC RSU v4.1 in October 2016. The DSRC RSU v4.1 was updated to incorporate industry, stakeholder and vendor feedback, evolution of standards, and new functionality needs. The specifications set the minimum requirements of RSUs for the DSRC infrastructure. A copy of DSRC RSU v4.1 can be supplied upon request. Currently available equipment is still on v4.0 platform and v4.1 is not backward compatible with v4.0. Thus, pilot projects specifying currently available DSRC equipment will likely have to specify the capability of the equipment to upgrade to v4.1 either through software re-flash or by external module.

V2I components of connected vehicle environments include RSU; Signal Phase and Timing (SPaT) enabled traffic signal controllers; data links between V2I components and a traffic management center (TMC); sensors and/or relays.

Key technical challenges include:

- Standardized 5.9 GHz DSRC RSU to serve as communication notes;
- Traffic signal controller interfaces to provide SPaT data;
- Mapping and positioning services for resolving vehicle locations with a high level of precision; and
- Data servers for collecting and processing data provided by vehicles and for distributing information, advisories, and alerts.

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Institutional challenges include:

- Standards setting;
- Systems and processes for security credential management; and
- Funding mechanisms for public agencies.

Connected Vehicle Current Rulemaking

In December 2016 the USDOT released proposed V2V rulemaking that would require all new light-duty vehicles to be equipped with communication technology to aid in crash avoidance. The proposed V2V rulemaking does not require state and local DOTs to adopt connected vehicle infrastructure. It is important for DOTs to determine the effectiveness in meeting an identified need; evaluate the cost and benefits; and to leverage on the developments in V2V communications.

Crash Avoidance Metrics Partnership (CAMP)

The USDOT facilitated and supported a partnership, CAMP, to develop and test V2V safety applications. The goal was to determine if this technology would work better than existing vehicle-based safety systems such as cruise control. CAMP includes Ford, General Motors, Honda, Hyundai-Kai, Volkswagen, Mercedes-Benz, and Toyota.

Contact Mr. Fred Heery at (850) 410-5600 or at Fred.Heery@dot.state.fl.us for additional information.



Source: U.S. DOT

Source: USDOT



District Four Hosts Annual Holiday Travel 511 Media Event

By Natalie Cortes, Marketing/Public Outreach Coordinator, SMART SunGuide® RTMC



Source: Global-5

The Florida Department of Transportation (FDOT) District Four collaborated with Florida 511 to host a holiday media event at the District

Four Regional Transportation Management Center (RTMC) on November 22, 2016. Motorists across South Florida learned the latest predictions for their upcoming holiday travels. With participation from Florida Turnpike Enterprise (FTE) and Florida Highway Patrol (FHP), this year's holiday travel media event surpassed expectations.

With reporters from all major local news agencies attending the early-morning event, FDOT and Florida 511 coordinated several interviews to cover trending topics on holiday travel, driver safety, and most importantly, the new and improved Florida 511 mobile application.

With eight filmed media interviews and overall social media impressions in the millions, FDOT District Four once again proved that through preparation and extensive public outreach, the agency's number one goal of keep motorists informed and safe, was important as ever. It comes as no surprise that since its launch Florida 511 has received nearly 6.4 million visitors and averaged approximately 128,000 visitors each month.

For more information on District Four's annual holiday travel 511 media event, please contact Mr. Dong Chen at Dong.Chen@dot.state.fl.us or by phone at 954-847-2785.

Students Learn about ITS as a Career

By Mike Washburn, Florida's Turnpike Enterprise, Incident Management Program Manager

For the eleventh consecutive year, Florida's Turnpike Traffic Operations team participated in the annual South Florida Construction Career Days at the Bergeron Rodeo Grounds in Davie, FL.



Source: FDOT

Operations/Intelligent Transportation Systems (ITS) "Learning Lab." The Learning Labs at the event provided the students with invaluable hands-on demonstrations of various activities involved in the construction and operations of highway and bridge projects.

At the Turnpike's TMC/ITS learning lab, the students were able to learn about and use ITS systems and hardware including field devices such as Dynamic Messaging Signs (DMS) controllers and Closed Circuit Television

(CCTV) control. Wrong-way detection hardware and operations were also included in the booth set-up. Wrong-way Light Emitting Diode (LED) warning signs were demonstrated along with the ability of sensors and cameras to detect a wrong-way activity and send an alert to a TMC workstation. The students were encouraged to ask questions and converse with the lab crew, discussing career paths and interests. The goals of driver safety and emergency responder safety was highlighted during brief presentations to each group of about 25 students that would visit the lab at 15-minute intervals. Many of the questions asked focused on how to become a traffic engineer.



Source: FDOT

Construction Career Days is a nationally recognized event and continues to target high school and technical school students to help them discover the world of roadway construction and operations.

For more information, contact Mr. Mike Washburn at 954-934-1621 or Michael.Washburn@dot.state.fl.us.



FDOT District Six to Begin 'Move Over' Campaign to Promote First Responder Safety on Roadways

By Javier Rodriguez, P.E., District Six TSM&O Program Engineer

The Florida Department of Transportation (FDOT) District Six recently launched "Move Over," a multi-phase public information campaign to promote the safety of its Road Ranger Service Patrols and other first responders along its roadways.



Source: FDOT

This campaign is intended to educate the public about Florida's "Move Over" Law, which requires drivers on multi-lane roadways to move over a lane from an emergency or law enforcement vehicle parked along the roadway, safety permitting. If unable to move over, the law requires the driver to slow down to 20 MPH below the speed limit. If the road has a speed limit of 20 MPH or less, the law requires the driver to slow down to 5 MPH.

The goal of the campaign is to keep the public and our emergency response personnel safe. The District's Road Rangers and other partner agency response teams are notified and dispatched to clear traffic events on a daily basis. They secure incident scenes and help stranded motorists to keep our roadways free and clear of lane-blocking events. Ensuring their safety is FDOT's top priority and the "Move Over" campaign is helping FDOT achieve its mission.

For more information, contact Mr. Javier Rodriguez by email at Javier.Rodriguez2@dot.state.fl.us.



Disclaimer: This is not an approved DMS safety message.



New Florida 511 Features: Waypoints, Incident Cameras and More

By Russell Allen, P.E., ITS Program Development Engineer;
Mike Wacht, Global-5

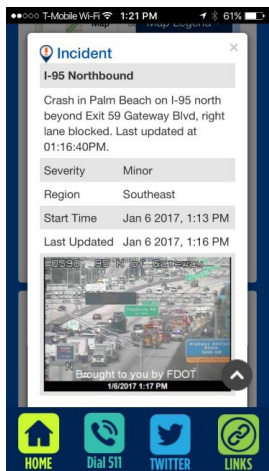


Source: Global-5

The Florida Department of Transportation (FDOT) recently introduced several enhancements to its Florida 511 Advanced Traveler Information System to help you avoid congestion and arrive safely and on time.

You now have the option of modifying your route on FL511.com by clicking and dragging any part of the route to a new roadway using a waypoint. You can use as many waypoints as needed to modify your route. With the addition of each waypoint, the system will recalculate your travel time, provide turn-by-turn directions and inform you of any incidents, construction or congestion. Another new feature is the addition of camera images to incident alerts. When a crash, construction or congestion incident occurs, the system will search for nearby traffic cameras and include an image with the incident alert.

The system also now remembers the region you choose from the user options located above the main navigation bar on FL511.com. After registering your account, select Statewide, Central, Northeast, Panhandle, Southeast, Southwest or Tampa Bay. The system will save your preferred region even after you log out. You can easily change your selected region by choosing a new region from the drop-down list.



Source: Global-5

The new *Drive Mode* on the app provides notifications for incidents and congestion. If you see an exclamation point icon on the map, that means there is an incident in the area. On the website, FDOT added to the map legend congestion alerts with a new icon.

In the 511 phone system, personalization and improved voice recognition are recent major upgrades. You can now call 511 and ask for "Profile" to hear the current conditions for all your saved routes.

Know before you go and keep Florida moving with the new 511! Keep checking the [Florida 511 newsletter](#) for tips and advice on how to use new features.

Florida 511 Marketing Hits Two Billion Impressions

In 2016, FDOT's marketing and outreach efforts for the Florida 511 system achieved a new milestone: the Florida 511 message was received more than two billion times by Florida residents and visitors. Each time

someone sees or hears about Florida 511 is one impression. Those impressions resulted in people using the 511 system.

One of our most successful outreach efforts is the placement of inbound links to the website. Sites like those belonging to the State Emergency Response Team, Florida State University Student Union, Miami-Dade Government and the Sun-Sentinel generate millions of impressions each with information about and links to FL511.com.



Shelter and Evacuation Resources

FLORIDA

[Florida Emergency Management](#)

[Know your zone](#) enter your address to find zone

[Florida Evacuates](#) site with alerts, shelter information and a mobile app

[Emergency management offices](#) by county

[Evacuation route maps](#) by county

[Available shelters](#) by county

[Broward County Preparedness](#)

[Storm Surge Simulator](#)

[Miami Dade County - find your Storm Surge Zone](#)

[Florida 511](#) - alerts, traffic info and mobile app

*Call 511 for up-to-the-minute reports on major evacuation routes, bridge and road closures due to hazardous conditions and roadways with toll suspensions

*Sign up for free My Florida 511 personalized services to preprogram several evacuation routes.

When an evacuation is called for, assess road conditions and congestion along each route to select the best one

*Visit FL511.com to view regularly updated camera images of major highways and bridges that may be affected by severe weather

Source: Global-5

Outreach via Twitter and other FDOT social media channels generates millions of impressions each month. This outreach includes announcements about upcoming planned special events, news releases and other marketing messages; and excludes the impressions generated by Florida 511 system tweets.

The Florida 511 logo and message placed by partners on the CCTV cameras generates hundreds of millions of impressions each year. Floridians and visitors watching the morning news see the Florida 511 message during traffic reports, and FDOT cameras are essential to the news media during major traffic events and 2016's two hurricanes.



Source: Global-5

Direct outreach to the news media, and the coverage that resulted from it, contributed millions more impressions. Media events held around major travel holidays in Districts Two and Four, and major sporting events in Districts Two and Seven; news coverage of Hurricanes Hermine and Matthew; and media releases surrounding major planned special events throughout the state helped generate coverage of Florida 511. Florida 511 experienced a record-breaking month in October when Hurricane Matthew impacted the state, and saw rapid growth of the new app and personalized services following the September launch.

For more information, contact Mr. Russell Allen by phone at 850-410-5600 or email at Russell.Allen@dot.state.fl.us.



Orlando Multimodal Integrated Corridor Management (MMICM): A Regional Approach

By Jeremy Dilmore, P.E., District Five, TSM&O Engineer - Freeways

The Florida Department of Transportation (FDOT) District Five and Florida's Turnpike Enterprise (FTE) in partnership with MetroPlan Orlando, Orange County, Osceola County, Seminole County, Volusia County, LYNX, Votran, Sunrail, Central Florida Expressway (CFX), and the many municipalities within those counties including the City of Orlando, have committed via a Memorandum of Agreement to work together to manage the transportation challenges of growing demand on the system, supporting communities with safe transportation options, and improving safety and mobility for all modes of transportation. To this end, the group has moved ahead with a Multimodal Integrated Corridor Management (MMICM) approach to address both recurring and nonrecurring congestion causes and open up mode choice within Central Florida.

The Team

The Central Florida team has been working diligently towards the implementation of MMICM. While the local agencies have been interconnected and have shared video feeds for over a decade, new areas of cooperation are being crossed to make MMICM a reality. City of Orlando, Orange County, and Seminole County have provided FDOT access to their Signal Systems. FDOT has provided access to SunGuide software and to travel time servers for the local agencies. Osceola County has plans for access to their Signal System.

Jointly the group has supported the production of Transit Signal Priority and Bluetooth data collection across jurisdictional boundaries. Seminole County has led the way in Signal Performance Metrics, Orange County in Adaptive Signal Control, and City of Orlando continues to pilot Smart City efforts. LYNX (the Orlando area transit system) and Votran have implemented Automated Vehicle Location Systems, CFX leads the way in Wrong Way Detection, and FTE provides leadership in Express Lanes. Each team member brings innovation and spirit of teamwork and cooperation to the table. This willingness to work together, to recognize and respect the contributions of others, and to move beyond parochial interest is needed first and foremost for a successful team that will make use of an MMICM effort.

The Software

MMICM software provides the technical means to accomplish the local objectives. The software has five focus areas: Information Management, System Awareness and Opportunities, Modeling and Simulation, Coordinated Response, and System Activation.

Signal, vehicular, transit, and pedestrian data are sent to a system capable of capturing, normalizing, cleaning, and transforming data into unified information. The newly mastered data is then presented to a variety of existing interfaces and to the new MMICM modules. New data management techniques that are capable of using structured and

unstructured data sources ensure compatibility with future Smart City and Connected Vehicle technologies as they emerge.

Everything begins by understanding what is currently happening in the system from one source for all agencies. A central portal will include device availability, the master datasets from the information management step, and the ability to interrogate the data through industry accepted techniques to understand where there are opportunities for intervention. These opportunities may be triggered by timings that don't fit existing patterns, incidents that divert traffic through detour routes, or a train crash resulting in a bus bridging activation.

Once an opportunity is understood to be present, it needs to be evaluated to ensure it is an improvement. Simulation models are used along with projected traffic patterns to understand what is likely to happen next and how intervention will affect the outcome. In intervention is precessed when predefined Measures of Effectiveness (MOE) are met.

Once an MoE is met and the system recommends an intervention, coordination across the region occurs. The autonomy and insight of each agency is maintained through response and approval from each involved stakeholder. Messages and to key staff are set via the central portal and the SMS alerts. Business rules govern action if no response is received or if the response period "times-out."

With approval of a proven intervention in place, actions are carried out in a coordinated fashion via SunGuide and/or alerts via the central portal and SMS alerts. If SunGuide has access to the system, it can call signal timing plans, update DMS, and push alerts to Florida's Advance Traveler Information System in real-time. For systems that run on unconnected platforms, operators manually activate the actions and report back implementation.

Moving Forward

The Orlando MMICM software development project is set to advertise in late January to move from concept and requirements to implementation. The project has already had a number of early wins with software sharing and cross jurisdictional projects that have improved access to data and on-time arrivals of transit. There is still a lot of work ahead, but many milestones are behind the team. While the technical details of a development of this size are important and time consuming, it is the teamwork of the region and the willingness to partner that makes everything possible.

For more information, please contact Mr. Jeremy Dilmore by phone at 386-943-5360 or by email at Jeremy.Dilmore@dot.state.fl.us.



ITS Annual Awards and Scholarships

By Sandy Beck, Chapter Administrator, ITS Florida

AWARDS

ITS Florida held its Annual Awards and Scholarships at Transpo2016 on November 15th. The awardees were:

ITS CHAMPION OF THE YEAR AWARD



Pictured: Elizabeth Birriel on behalf of Senator Brandes

The recipient was **Senator Jeff Brandes** for his tireless efforts related to the advancement of Intelligent Transportation Systems (ITS), Transportation and Autonomous Vehicles Projects in Florida. Elizabeth Birriel received the award on behalf of Senator Brandes.

MEMBER OF THE YEAR AWARD

Presented to **Mark Wilson, P.E.**, Florida Department of Transportation, Central Office for its development and implementation of the autonomous and connected vehicle ITS program.



Pictured: Fred Heery on behalf of Mark Wilson



Pictured: Fred Heery and Mark Wilson

PROFESSIONAL OF THE YEAR AWARD



Pictured: Vishal Kakkad and Sara Calhoun

Presented to **Vishal Kakkad, Manatee County**, in recognition of his outstanding service to ITS in Florida and his unwavering contribution to the advancement of the transportation industry.

OUTSTANDING ACHIEVEMENT AWARD



Pictured: Russell Allen and Sara Calhoun

Presented to **Russell Allen, P.E.**, Florida Department of Transportation, Central Office, for his role in the FDOT Data Integration and Video Aggregation System (DIVAS) and FL511 System.

OUTSTANDING ACHIEVEMENT AWARD

Florida Department of Transportation, District 4, received this award for the development of a Mobile Maintenance Module for the Maintenance Inventory Management Systems (MIMS).

SCHOLARSHIPS

Mr. Amir Ghiasi was the recipient of the first place scholarship award.

Mr. Ghiasi is a PhD candidate at the University of South Florida. Along with ITE involvement, he currently leads two research tasks on Connected Automated Vehicles (CAV). His advisor noted that Mr. Ghiasi has done an excellent job in analyzing human-driven vehicle trajectory behaviors and is in the process of integrating human driving trajectories with the developed CAV control methods.



Pictured: Amir Ghiasi and Sara Calhoun



Pictured: Whobi Bin Chung and Sara Calhoun

Mr. Whobi Bin Chung was awarded the second place scholarship. Mr. Chung is a PhD candidate at the University of Central Florida. Mr. Chung has more than ten years of experience with ITS Korea. His advisor describes him as, "one of the outstanding PhD students that I have supervised during my over 20-year academic career."



ANNOUNCEMENTS:

Secretary's Challenge Coin



Source: FDOT

The Secretary's Challenge recognizes those employees who have demonstrated innovation, efficiency, and exceptionalism. The Challenge Coin symbolizes the Secretary's recognition of employees who have helped to further Florida Department of Transportation's (FDOT) reputation as a national leader in transportation.

The award is the Secretary's Gold Medallion and is awarded periodically at the discretion of the Secretary of Transportation.

Elizabeth Birriel, P.E., FSITE Secretary and FLITE Editor



Pictured: Elizabeth Birriel

Congratulations to Elizabeth for her election as the Secretary of the Florida Section of the International Transportation Engineers (FSITE). In her new position, she is responsible, among other things, for communicating upcoming meeting dates and Board related information to ITE Headquarters and putting together the Florida ITE (FLITE) Newsletter, which is prepared twice per year.

The most recent awardees:

Lee Smith, P.E., TSM&O Engineer with District Three. Lee participated in Secretary Work Day: TMC Visit and Road Ranger Work Day.

Jonathan Wilkes, FDOT Road Ranger (Autobase Corporation). Jonathan participated in Secretary Work Day: Road Ranger Work Day.

Javier Rodriguez, P.E., TSM&O Program Engineer. Javier participated in Secretary Work Day: TMC Visit and I-95 Express Lane Management.

Robbie Brown, FMS/AMC Specialist IV. Robbie participated in Secretary Work Day: TMC Visit and Tour.

The FSITE Secretary/FLITE Editor also handles the annual election process and keeps and distributes meeting minutes for Board meetings and business meetings.



Congratulations to Raj Ponnaluri, PhD, P.E., PTOE for Feature in FDOT's Research Showcase



Pictured: Raj Ponnaluri

Raj Ponnaluri was featured in the winter 2016 Research Showcase where he described his role, background on TSM&O, and involvement with the FDOT Research Center. [Click here to read the full article.](#)





CONGRATULATIONS ON THE NEW POSITION!

District One Director of Transportation Operations by L.K. Nandam, P.E.



Pictured: David Gwynn

David Gwynn, P.E., has been appointed to be Florida Department of Transportation's (FDOT) new Director of Transportation Operations for District One. His appointment became effective Friday, January 6, 2017.

David received his Bachelor of Science in Civil Engineering from the Military Academy at West Point in 1983, and his Masters of Science in Transportation Engineering from the University of Florida in 1988.

David is an accomplished professional in the transportation industry and has experience in both the private and public sectors; thirteen years with his own Traffic Engineering firm, over thirteen years in the consultant industry part of which was in the construction industry, eight months with the FDOT as the Access Management Engineer for District Seven and recently as the District Traffic Operations Engineer in District One.

David is a native of New Jersey but has lived in Florida since 1987, and is a US Army veteran. David and his wife, Cara have four daughters and a son ranging in age from 30 to 12 years old. He spends most of his free time with his wife and children and their 5 year old granddaughter. They like to travel and go to the beach a lot, as well as tube and waterski with their boat.

District One Traffic Operations Engineer by David Gwynn, P.E.



Pictured: Keith Slater

Traffic Operations is pleased to announce the appointment of Keith Slater to the position of District Traffic Operations Engineer. His position became effective on January 19, 2017.

Keith began his career with the Department and Traffic Operations in December of 1992 as Engineering Technician II. Since starting

with the Department, Keith has graduated from the University of South Florida (Go Bulls!) with a Bachelor's Degree in Civil Engineering and the Department's Professional Engineer Training Program. He has over 22 years of experience working with the Department, which includes Traffic Operations, Design, PD&E and Construction. For the past year, he has been serving as Traffic Services Program Engineer in Traffic Operations.

Keith is married to Melissa Slater, who works in Program Management. Together they have three wonderful children (Dylan, Andrew and Lauren) and two English Labradors. In his free time, Keith's enjoys the outdoors, traveling, and spending time with family and friends

TSM&O Program Engineer by David Gwynn, P.E.



Pictured: Mark Mathes

We are pleased to announce the appointment of Mark Mathes as the TSM&O Program Engineer, which became effective January 6th, 2017. The position was vacated by Chris Birozak.

Mark worked at Florida Department of Transportation (FDOT) District Seven in Traffic Operations and Traffic Design before coming to District One. He previously worked in the private

sector as a ITS Project Manager for a consulting firm. Additionally, Mark has earned Bachelors and Masters Degrees in Civil Engineering including a Masters concentrated in traffic engineering.

On a personal note, Mark enjoys spending time with family and friends, hiking with his dog, and cooking.



Managed Lanes Engineer by Courtney Drummond, P.E.



Jennifer Fortunas was recently announced as the State Managed Lanes Engineer. Jennifer will work in the State Traffic Engineering and Operations Office reporting directly to Trey Tillander.

In her new role Jennifer will lead efforts to:

- Develop and maintain Managed Lanes procedures, handbooks, manuals, standards, and specifications.
- Coordinate with FHWA and support the Districts, Turnpike, and other Central Offices with Managed Lanes signing, pavement marking, delineation, and simulation modeling.
- Facilitate Regional Concept of Transportation Operations (RCTO)

Pictured: Jennifer Fortunas

- Meetings and provide statewide guidance and support for systems engineering and Concept of Operations documentation.
- Coordinate the Statewide Express Lanes Software Change Management Team, and the independent verification and validation for the Statewide Express Lanes Software.
- Provide statewide policy and guidance for Intelligent Transportation System (ITS) Express Lane maintenance and operations levels of service and funding.

Jennifer comes to the position having worked in Systems Planning for ten years where she led FDOT's System Management Section. Prior to her FDOT career, Jennifer worked with a private consulting firm providing roadway design, PD&E, and planning services. Jennifer is a registered professional engineer in the State of Florida.

Ms. Jennifer Fortunas can be reached at jennifer.fortunus@dot.state.fl.us.

FAREWELL: GOOD LUCK IN YOUR FUTURE ENDEAVORS!

Resignation of FDOT Secretary Boxold; Rachel Cone as Interim Secretary by Governor Rick Scott

Governor Rick Scott announced Secretary Jim Boxold's resignation from the Florida Department of Transportation (FDOT), effective February 3, 2017. He has served in this role since 2015. Rachel Cone, who currently serves as Assistant Secretary for Finance and Administration, will serve as interim Secretary beginning February 4th.

Governor Scott said, "Jim Boxold has done a great job leading FDOT and I want to thank him for his hard work as we have continued to make critical investments in Florida's transportation infrastructure. Under his leadership, Florida has been a leader in transportation and made great

improvements in our seaports, bridges and airports. His dedication to our state has helped ensure we have a world-class transportation system that supports continued economic growth and job creation. I am truly proud of all the good work Jim has done and wish him the best in his future endeavors."

Rachel Cone has served in her current position as Assistant Secretary for Finance and Administration since 2015. Prior to this role at FDOT, Rachel served as Deputy Chief of Staff for Governor Scott from 2012 to 2014. She also was the Communications Director at the Florida Department of Environmental Protection from 2011 to 2012. Rachel received her bachelor's degree from Auburn University.

Farewell to Debora Rivera by District Six Transportation Operations Office



Debora Rivera, P.E., Director of Transportation Operations in District Six began her public service career in the Florida Department of Transportation (FDOT) approximately 30 years ago. She started in Maintenance and was soon promoted within the organization after being recognized for her willingness to take on difficult tasks and for showing an innovative approach to doing business. These traits would characterize her leadership style in the years to come and helped her ascend to leadership roles that ultimately shaped the District into what it is today.

Pictured: Debora Rivera

Prior to her current position and in her role as the District Traffic Operations Engineer, Ms. Rivera played a critical part in the reorganization of the District's Intelligent Transportation Systems (ITS) Program. Still in its beginning stages, she was among the first to understand both the importance and the impact the program would have. As a result, she helped to guide ITS operations and supported the development of its incident management, traffic management and traveler information services. These services became the foundation for the program and worked to support the launch and operations of the state's first managed lanes and ramp signaling project, 95 Express.

Ms. Rivera's work through the years has undoubtedly left a profound mark in the ITS industry. Her forward thinking led her to become project leader of 95 Express in Miami-Dade County and oversaw the successful implementation and subsequent expansion of the system in the region.



She became a thought leader in managed lanes and championed its benefits across the country, often serving as expert, defender and spokesperson.

Ms. Rivera changed the transportation landscape in south Florida and her contributions will be felt for years to come. In her 30 years she was

seen as a fearless leader, a champion of innovation and served as a mentor to her staff.

We thank her for her service to FDOT and wish the best for her and her family.

Congratulations to Mark Wilson on his recent retirement!



Mark C. Wilson, P.E., recently retired after 32 years with Florida Department of Transportation (FDOT). His last assignment was Manager of the Program Management Office.

Mark started his career working at the State Traffic Engineering and Operations (STEO) office of FDOT. He served in the STEO, Procurement Office and Project Management office and later back to STEO as the Deputy State Traffic Operations Engineer. In 2008, he was appointed as the State Traffic Operations Engineer and Director, Traffic Engineering and Operations office and held that position into 2016.

Mark is an Auburn University graduate and has served on several committees including the National Council on Uniform Traffic Control Devices and the Subcommittee on Traffic Engineering of the American Association of State Highway and Transportation Officials.

Mark is recognized nationally for his extensive expertise and experience in traffic engineering, intelligent transportation systems (ITS), transportation system management and operations (TSM&O), and vast knowledge of the MUTCD, traffic signal systems and highway signing program areas.

Mark's wife Susan also retired from FDOT in 2016, and they are blessed with two children, Matt and Jordan. Everyone in the Traffic Operations family thank him for his service and wish him the best of luck in his future endeavors.



Pictured: Brian Blanchard and Mark Wilson

LOOKING TO BE A CONTRIBUTOR FOR THE NEXT ISSUE OF THE SUNGUIDE DISSEMINATOR?

Email Jennifer Rich (Jennifer.Rich@dot.state.fl.us) and Jennifer Schultz (jschultz@hntb.com) with your story subject and title.

This newsletter is issued on a bi-monthly basis and we'd love to have your contribution be a part of the next edition.



FDOT Traffic Engineering and Operations Mission and Vision Statements

Mission

Provide leadership and serve as a catalyst in becoming the national leader in mobility.

Vision

Provide support and expertise in the application of Traffic Engineering principles and practices to improve safety and mobility.

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