

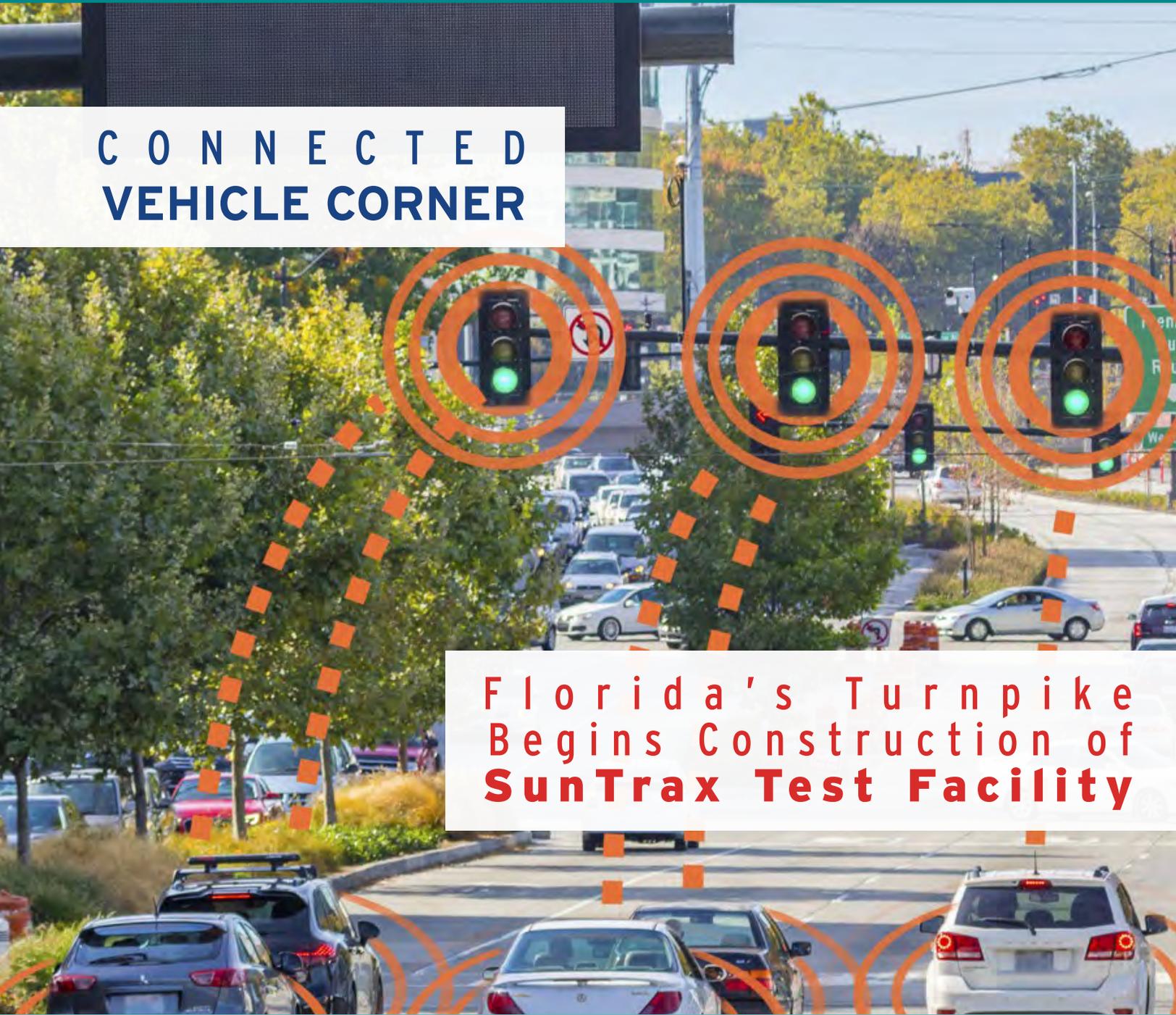
# TSM&O

TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS

# DISSEMINATOR

May - June 2017

## CONNECTED VEHICLE CORNER



Florida's Turnpike  
Begins Construction of  
**SunTrax Test Facility**



# 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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## LOOKING TO BE A CONTRIBUTOR FOR THE NEXT ISSUE OF THE TSM&O DISSEMINATOR?

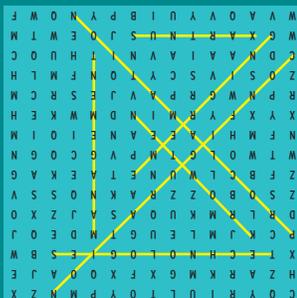
Email Jennifer Rich  
(Jennifer.Rich@dot.state.fl.us)  
with your story subject and title.

This newsletter is issued on a bi-monthly basis and was formerly known as the SunGuide® Disseminator. We'd love to have your contribution be a part of the next edition.

Photo credits: FDOT & HNTB

**PHYSICAL ADDRESS:**  
Rhyne Building  
2740 Centerview Drive, Suite 3B  
Tallahassee, FL 32301

**MAILING ADDRESS:**  
Burns Building  
605 Suwannee Street, MS 90  
Tallahassee, FL 32399



# CONNECTED VEHICLE CORNER

By Fred Heery, P.E., State TSM&O Program Engineer & Rakesh Sharma, P.E., TSM&O Deputy GC Program Manager, HNTB

The Florida Department of Transportation (FDOT) has a legacy of connected vehicle (CV) innovation, having been involved in the evolution of CV technology for at least a decade or more. With the December 13, 2016 Notice of Public Rule Making (NPRM) issued by the National Highway Traffic Safety Administration (NHTSA) for Vehicle to Vehicle (V2V) communications, CV technology is closer to becoming a reality in Florida and across the nation. As described below, FDOT has been preparing for connected vehicles in terms of deployment planning, application development, and infrastructure readiness.

## 2011 ITS World Congress

Leading up to the 2011 World Congress on Intelligent Transportation Systems in Orlando, FDOT collaborated with the United States Department of Transportation (USDOT) and regional partners to establish one of the nation's first operational CV test beds on Interstate 4 (I-4), International Drive, and John Young Parkway. Twenty-six roadside units (RSUs) were deployed within this test environment and used during CV demonstrations at the ITS World Congress. Behind the scenes, the SunGuide software was enhanced to receive Basic Safety Messages (BSMs) from 42 demonstration vehicles, including passenger cars, fleet vehicles and LYNX buses. This effort was carried out to disseminate information to a sample of vehicles that were a part of the World Congress demonstrations. This was the first time that an operational Advanced Traveler Information System (ATIS) including, the software system, was integrated with CV infrastructure to support transportation operations.

## University Partnerships

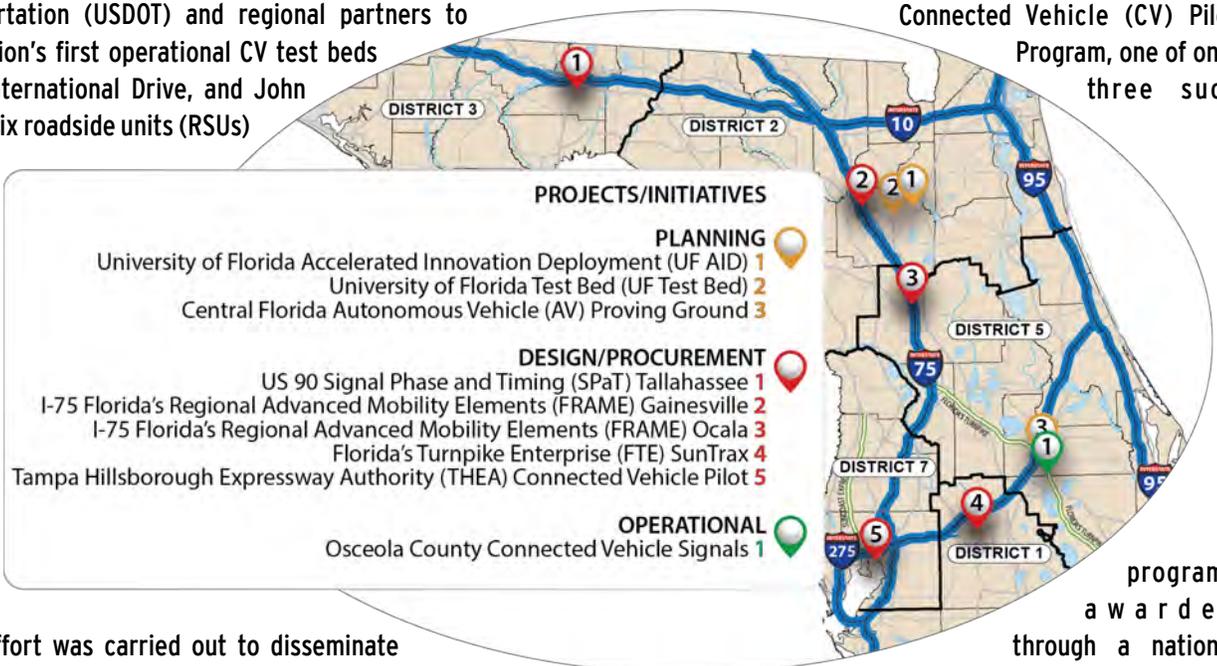
Through research partnerships with Florida's universities and institutes of higher learning, FDOT has supported a number of initiatives in the CV space. For example, FDOT is leading the effort and partnering with the University of Florida (UF) in pursuing the Federal Accelerated Innovation Deployment (AID) Grant application for pedestrian/bicyclist safety using ITS and CV technologies.

## National Committee Involvement

At the national level, FDOT has been actively involved in committees and initiatives including the Connected Vehicle Pooled Fund Study and the Vehicle to Infrastructure (V2I) Deployment Coalition, formed by the American Association of highway and Transportation Officials (AASHTO), Institute of Transportation Engineers (ITE) and the Intelligent Transportation Society of America (ITSA) to address CV infrastructure deployment needs. These activities have allowed FDOT to sustain and expand its national leadership while also supporting district level and local CV deployment programs.

## Connected Vehicle Pilots

Among the most prominent of these programs is the Tampa Connected Vehicle (CV) Pilot Program, one of only three such



programs awarded through a national competition by the USDOT. This program, led by the Tampa-Hillsborough Expressway Authority, is now in the design and deployment phase, with deployment beginning in 2018. The Tampa CV Pilot includes various CV applications in and around downtown Tampa. The applications focus on safety and mobility for multiple modes of travel, including streetcars, buses, passenger cars, and pedestrians.

## Additional Initiatives for 2017 and Beyond

FDOT will continue to provide leadership in the deployment of CV technologies in 2017 and going forward. Some of the programs that are initiated, beyond those summarized above, include the following.

continued on the next page

## I-75 Florida's Regional Advanced Mobility Elements (FRAME)

This project will deploy emerging technologies to better manage, operate, and maintain the multi-modal transportation system and create an Integrated Corridor Management (ICM) solution on I-75 and state highway systems in the cities of Gainesville and Ocala. The emerging technologies proposed in this project are Automated Traffic Signal Performance Measures (ATSPM) and CV technologies such as Road Side Units (RSUs) and On Board Units (OBUs) for effective traffic operations, Transit Signal Priority (TSP) and Freight Signal Priority (FSP). The goal of the project is to disseminate real-time information to the motorists during freeway incidents. This project concept will be refined during the design stage when FDOT Districts 2 and 5 champion the planning and design effort for deployment.

## SunTrax

FDOT's Florida Turnpike Enterprise (FTE) and Florida Polytechnic University have partnered to develop SunTrax, a transportation technology testing facility that includes a 2.25-mile oval track on a 400-acre site in Polk County, centrally located between Tampa and Orlando. The facility will be adjacent to FTE's Polk Parkway just two miles south of the Florida Polytechnic University campus. Design on the initial phase, an innovative toll testing facility replicating limited access conditions for high speed testing of tolling and connected and automated vehicle technologies, has been completed. The oval track includes infrastructure such as shelters, buildings, gantry structures, and a variety of mounting locations for road side units and tolling equipment. The facility was designed around multiple scenarios such as single lane, multiple lanes, and parallel toll and express lanes.

## US 90 Signal Phase and Timing (SPaT) Project

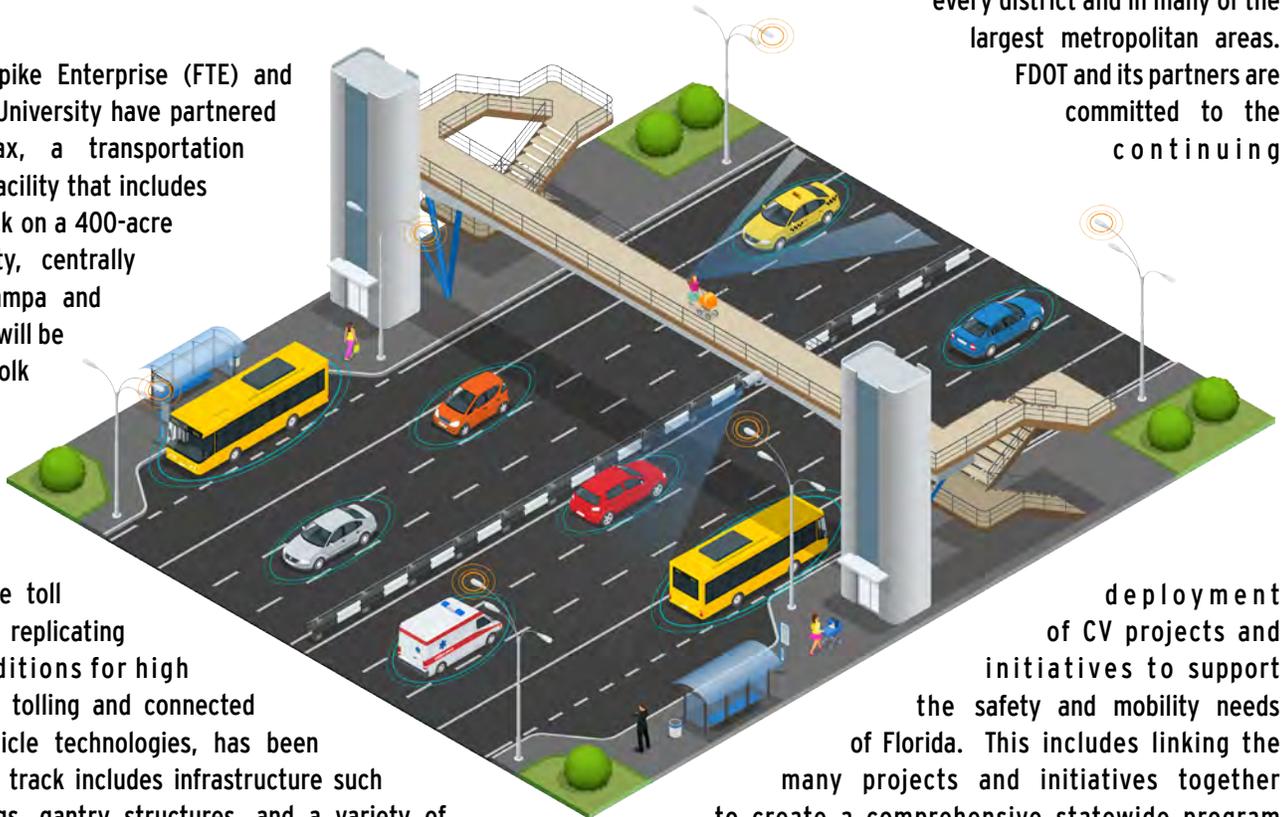
Under FDOT's TSM&O program, arterial traffic management solutions are receiving great attention and focus, especially given the technology advances offered by connected vehicles. One major Signal Phase and Timing (SPaT) project using CV technology is being planned for deployment in the City of Tallahassee.

## Central Florida Automated Vehicle Partnership - USDOT's Approved Proving Ground

The Central Florida Automated Vehicle Partnership applied and was successfully approved by the USDOT as a proving ground to become one of the nation's premiere clusters for research and the development of automated vehicle technology across all modes of travel. The City of Orlando led the effort in partnership with FDOT, Central Florida Expressway Authority, University of Central Florida, Florida Polytechnic University, Florida A&M University, Florida State University, Lynx, and NASA.

## Connecting the Dots

The rich legacy of transportation innovation has reached a new inflection point and is gaining momentum throughout Florida, in every district and in many of the largest metropolitan areas. FDOT and its partners are committed to the continuing



deployment of CV projects and initiatives to support the safety and mobility needs of Florida. This includes linking the many projects and initiatives together to create a comprehensive statewide program for research, development, and deployment of these transformative technologies.

Stay tuned for more updates on the projects mentioned in the Connected Vehicle Corner. For more information please contact Mr. Fred Heery at (850) 410-5600 or by email at [Fred.Heery@dot.state.fl.us](mailto:Fred.Heery@dot.state.fl.us).

# FLORIDA'S TURNPIKE BEGINS CONSTRUCTION OF SUNTRAX TEST FACILITY

*By Paul Satchfield, Program Management Administrator, Florida's Turnpike Enterprise*

The Florida Department of Transportation's Florida Turnpike Enterprise (FTE) has just begun construction of a new transportation technology testing facility named SunTrax. This testing site includes a 2.25-mile oval track on a 400-acre site in Polk County, centrally located between Tampa and Orlando. The facility will be adjacent to FTE's Polk Parkway (SR 540) just two miles south of Interstate 4.

The initial phase of the project includes a state-of-the-art toll technology testing facility replicating limited access conditions for the high speed testing of tolling and AV technologies. In addition to the oval track, the site includes such infrastructure as all-electronic-tolling (AET), re-configurable toll gantry structures, toll buildings, office and vehicle storage buildings, site-wide ITS fiber connectivity, CCTV cameras, and variable LED lighting. The facility was designed to test multiple tolling scenarios such as single lane, multiple lanes, and express lanes parallel to general use lanes, similar to the express lane configurations currently being planned and constructed across the state.

FTE is a public-sector entity and strives to achieve the best value proposition in each acquisition. As such, FTE presently owns and maintains four different toll systems from three main vendors. These tolling systems include both hardware and software that are continuously upgraded and improved, often on a quarterly basis. Testing tolling systems prior to deployment is essential in order to maintain FTE's high standards for accuracy and level of customer service. Variables will be more controllable, and the testing operations will not cause impacts to the motoring public. FTE will also gain efficiency by running multiple tests at the same time utilizing the same resources. The SunTrax site will allow FTE to centralize all its testing operations in a controlled environment, rather than at the geographically dispersed locations currently being utilized throughout the state. This site will help FTE stay at the cutting edge with both current and future generations of tolling equipment and payment systems.

The next phase of the project, which is currently in the design phase, will build out the track infield to support the testing of automated vehicles (AV). There will be multiple simulated transportation environments, including a central business district, large arterial roadways, rural roads, varied types of large and complex intersections, different types of pavement and pavement markings, etc. The intent is to maximize the site's flexibility and variability,

providing as many challenging environments as possible for the testing of AV and other emerging technologies. The entire site will be a connected environment for the testing of V2I, V2V, and V2X communications, and there will also be several buildings and support facilities constructed in addition to the transportation infrastructure.

At the end of 2016, SunTrax, as a part of the Central Florida AV Partnership, was designated as one of only ten USDOT AV Proving Grounds in the United States, significantly increasing exposure for



the project. Other members of the CFAVP include Florida Polytechnic University, the City of Orlando, the University of Central Florida (UCF), and Kennedy Space Center. The partnership's mission is to coordinate with its members, the USDOT, and the other nationally designated AV Proving Grounds to create and further a Community of Practice, and ultimately to advance automated technology, improve safety practices, and transform mobility.

These kinds of partnerships with government agencies, academia, and private industry make SunTrax a truly unique project. Florida universities will be conducting research and validating results as well as developing the next generation of AV professionals, who will receive hands-on training in the AV space. Private industry stakeholders such as automakers and AV technology developers will also be using the site to perform testing that is controllable and repeatable in environments that accurately simulate real-world conditions but without the safety risks associated with testing on public roads.

For more information contact Mr. Satchfield by email at [Paul.Satchfield@dot.state.fl.us](mailto:Paul.Satchfield@dot.state.fl.us) or you may visit the SunTrax website at <http://www.suntraxfl.com>.

# DISTRICT FOUR 2016 ANNUAL REPORT HIGHLIGHTS

By *Natalie Cortes, Smart SunGuide RTMC, Marketing/Public Outreach Coordinator*

With every new year, the District Four's Intelligent Transportation System (ITS) Unit publishes the highly anticipated annual report, which highlights District Four's innovations and successful deployments. Continuing last year's trailblazing record, 2016 was another impressive year for the department with extensive advancements in Traffic Incident Management (TIM) and Managed Lanes.

This year's annual report is noticeably different with the major focus shifting to Transportation Systems Management and Operations (TSM&O) and inter-agency partnerships. For the first time in District Four, achievements from both the Freeway Management System (FMS) and Arterial Management Program (AMP) are presented within the annual report. AMP, which successfully launched in 2014 in Palm Beach County, became a statewide and nationwide example for how to manage an arterial system in real time, befitting District Four's trailblazing reputation.

Remaining consistent with previous annual reports, one of the most important features displayed in the 2016 TSM&O Annual Report is the Freeway Management Benefit-Cost Ratio; a figure-value that represents the advantages toward motorists based on improvements to FDOT District Four's highways. This year, the Benefit-Cost Ratio was identified as 10. This signifies that every dollar spent on ITS improvements within the FMS program generated \$10 worth of motorist benefits in travel times and fuel savings. Also reflective of these improvements is District Four's incident clearance time, a key performance measure of any FMS program. Once again, District Four continued its record of advancement with an average clearance time of 58.8 minutes; almost two minutes more than a minute under the Federal Highway Administration's industry standard of 60 minutes.

A major theme throughout this year's report was inter-agency partnerships. In order to keep up with infrastructure deployments for District Four's future managed lanes systems, District Four's TIM Team initiated an extensive express lanes training program for incident responders tackling important issues involving motorist safety, lane closures, and the common South Florida phenomenon, lane diving. In order to improve overall incident management, District Four knew it was important to take a proactive approach and follow previous employ tactics previously used by District Six. In less than five months, District Four successfully trained more than 100 incident responders.



District Four's "no challenge is too great" attitude continues to set trends within the state and region. These and other accomplishments are highlighted in the 2016 TSM&O Annual Report. To review the full report, please visit the SMART SunGuide website at <http://www.smartsunguide.com/#/publicOutreach> under Outreach Materials.

For more information please contact Mrs. Melissa Ackert at (954) 777-4156 or by email at [Melissa.Ackert@dot.state.fl.us](mailto:Melissa.Ackert@dot.state.fl.us).

# FDOT ITS COMMUNICATIONS PROGRAM UPDATES

By Randy Pierce, ITS Communications Program Administrator & David Chang, ITS CGC Program Manager

The beginning of May saw the kickoff of the next phase of the Florida Department of Transportation's (FDOT) Intelligent Transportation Systems (ITS) Communications Program. Transportation Systems Management and Operations (TSM&O) Program Director Fred Heery and ITS Communications Program Administrator Randy Pierce oversaw a discussion that covered current projects, strategic actions, and other topics intended to move this critical statewide program forward.

To support Fred and Randy, the new Atkins team participated in the discussion, including project manager David Chang, deputy project manager Terry Posey, security specialist Kevin Schneider, and ITS Facility Management (ITSFM) manager Tim Sapp. On-site ITS Communications Program team members also include Danielle Morales, Sean Kane, David Heupel, Josh Beizer, Connie Stehling, and Lee Joiner.

## Current Projects

Florida's ITS communications network is undergoing major enhancements. Phase I includes the Florida Keys Microwave System Upgrade, a \$3.2M project that will be completed at the end of July 2017. This infrastructure upgrade will deliver high capacity, enhanced reliability communications for District Six. In addition to integration with the statewide ITS communications network, this project will improve evacuation control at District Six's regional transportation management center and allow for remote management and operations by the Central Office.

Five Florida's Turnpike Enterprise microwave towers will be refurbished or replaced. The tower replacements at Yeehaw Junction and Site X, will be completed by the end of May 2017, and the remaining work will be completed by the end of November 2017. In addition to antenna upgrades, the remaining work includes improvements to the Statewide Law Enforcement Radio System. Additional microwave tower maintenance and replacement needs will be covered under the new statewide Communications Maintenance Contract, with an expected award by the end of May 2017.

A network management software enhancement will enable Florida's communications network to run optimally, providing network alarms to isolate and solve problems quickly, facilitating network configuration from multiple locations, enabling accounting management and performance monitoring, and enhancing security to keep the data

and network safe. FDOT will commission Telenium for this network management software enhancement at the end of May.

Communications facility upgrades are intended to improve operations and reduce maintenance costs. Improvements include replacement of emergency generators at the microwave tower sites, improvements to the DC battery plants, installation of light-emitting diode tower lighting systems, and heating, ventilation, and air conditioning system upgrades. Land mobile radios are critical statewide and inter-District communications tools and equipment upgrades are underway to improve communications during emergency events.

ITSFM supports the statewide telecom network through development of a complete infrastructure inventory, including Federal Communications Commission license procurement and maintenance, software modifications, and database encoding. Central Office is working with District Five to increase data availability by using a web interface to manage data values, enabling the sharing of non-proprietary ITS infrastructure information.

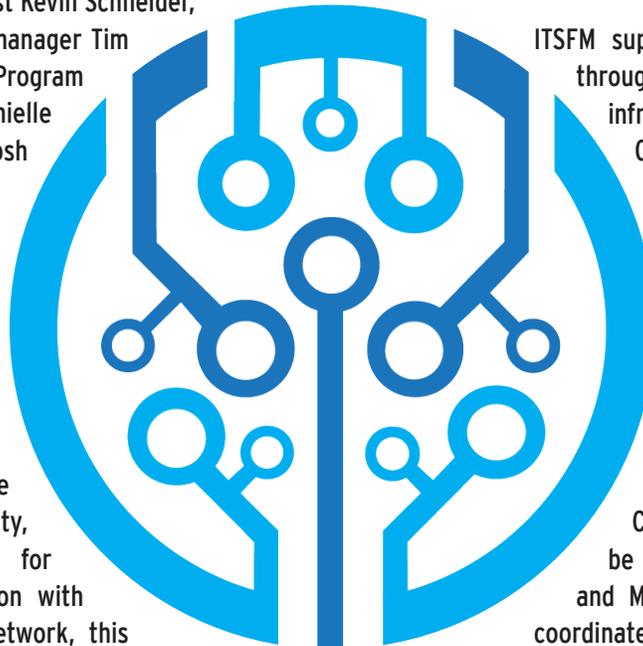
Computer-based ITFSM training will be available for the Viewer (Q4 - 2017) and Maintainer (Q1 - 2018) levels through a coordinated effort with FDOT's Office of Information

Technology, improving access and availability of these critical modules. Additional Florida-based trainers will be available for the ITS Maintainer and Statewide Telecommunication Network Maintainer modules.

Additional modules for signal maintainers, editors, data collection including GPS and cable mapping, construction, engineering, and inspection acceptance testing, and database encoding are under development.

## Strategic Actions

To enable standardization of ITFSM tools and processes, the Central Office proposes to create an ITFSM user group with public and private sector members to enable efficient field equipment operations and maintenance. A potential discussion topic is a statewide damage prevention program that stores geodata to maximize system uptime and enable long-term cost avoidance. By incorporating this geodata into new roadway plans, conflicts may easily be identified, and relocation costs may quickly be determined and included in construction budgets.



## FDOT ITS COMMUNICATIONS PROGRAM UPDATES (continued)

Several major ITS communications network upgrades are proposed. Phase II, a \$6.4M proposed multi-service network upgrade, will improve network routing capabilities by upgrading switches, routers, and hubs. This effort will enable statewide video sharing, reduce costs for data transport tolls by eliminating current recurring costs, and facilitate Connected Vehicle and signal phasing and timing applications. This project will also enhance cyber security and provide a backup to existing fiber networks.

Phase III is a \$21M proposed microwave radio capacity upgrade of radios, antennas, and facilities. This upgrade and replacement project will increase current bandwidth by nine times, enhance system reliability, and provide a backup to existing fiber networks.

Phase IV involves a statewide optical transmission network. A budgeting and scheduling strategy will be developed to consider alternative solutions and investigate 100 Gbps transmission technology. This effort will consider a comprehensive understanding of Florida's communications architecture to determine needs and requirements to maintain system availability, confidentiality, and integrity.

### Other Topics

The ITS Communications Program proposes to engage a communications working group whose initial focus will be statewide maintenance funding for ITS communications. The team will also evaluate the current usage of state-owned mobile communications trailers to determine their usage feasibility during critical events.



The ITS Communications Program team is excited to support these important and exciting initiatives. For more information please contact Mr. Randy Pierce at (850) 410-5608 or by email at [Randy.Pierce@dot.state.fl.us](mailto:Randy.Pierce@dot.state.fl.us).

## GOVERNOR SCOTT PROCLAIMS MAY 11 FLORIDA 511 TRAVELER INFORMATION DAY

*By Stephen Abel, Global-5 & Mike Wacht, Global-5*

May 11, 2017 will forever be known as Florida 511 Day. Governor Rick Scott recently signed an official Proclamation declaring May 11, 2017 as "the inaugural Florida 511 Traveler Information Day, honoring the public service of the Florida Department of Transportation (FDOT)."

The Proclamation recognizes that "Florida 511 helps FDOT fulfill its mission," noting "Florida 511 is the state's official source for traffic and travel information, helping residents and visitors move safely and efficiently through the state of Florida."



The Proclamation coincided with Florida 511 responding to users' requests for traffic information 30 million times since FDOT launched the statewide system in 2009.

For more information please contact Mr. Russell Allen at (850) 410-5626 or by email at [Russell.Allen@dot.state.fl.us](mailto:Russell.Allen@dot.state.fl.us).

“ I am very thankful that Gov. Scott recognized the Department's efforts with regard to FL511, and the important role it plays in keeping our motorists informed of traffic and travel conditions in real time. This program is very rewarding in many different ways, but none of this would be possible without the dedication and collaboration between District and Central Office Department staff and our private sector partners. The success of this program is truly a group effort. ”

- Russell Allen,  
ITS Program Development Engineer

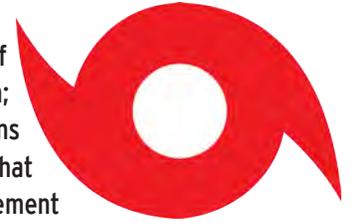
# DISTRICT SIX PASSES EMERGENCY PREPAREDNESS TEST

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

As part of the preparations in advance of the 2017 Hurricane Season, the District Six Transportation Systems Management and Operations (TSM&O) program performed an operational test utilizing their Network Access Point (NAP) of the Americas connection. The TSM&O program's Information Technology team conducted the test to demonstrate the transition and continuity of operations from the SunGuide Transportation Management Center (TMC) to the remote NAP facility known as the NAP of the Americas. The NAP of the Americas, located in downtown Miami, is one of the largest and most connected data centers in the world and guarantees 100 percent availability for all power systems. The NAP building was designed to withstand Category 5 hurricane-force winds. The NAP of the Americas provides reliable and high-bandwidth access to the world's major telecommunication carriers. Having a presence at the NAP allows District Six the flexibility to continue operations from essentially anywhere in the world. This allows District Six to secure its operations even through major interruptions to system connectivity.

The operational test consists of enabling the SunGuide NAP location; transitioning SunGuide operations from the TMC to the NAP; ensuring that operators have emergency management functionality and control of dynamic message signs and closed-circuit television cameras; conducting tests on these devices along every major roadway; and transferring operations back to the TMC. Operations staff then verifies the functionality one more time before resuming regular operations. The test was successful and both transitions were carried out efficiently. This test is conducted twice a year.

For more information contact Javier Rodriguez at (305) 640-7307 or by email at [Javier.Rodriguez2@dot.state.fl.us](mailto:Javier.Rodriguez2@dot.state.fl.us).



## TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS

*By Anthony Castellone, P.E., PTOE & Raj Ponnaluri, PhD, P.E., PTOE ITS TSM&O Council*

### **ITE'S EXECUTIVE COUNCIL WANTS YOU!**

The ITE TSM&O Council promotes dialogue and innovation in deployment of transportation solutions that maximize the use of existing infrastructure to benefit society.

At a high-level we are working towards the following objectives:

- Audit existing TSM&O Council Activities
- Fully integrate and welcome members of the Freight Standing Committee
- Develop a framework between the TSM&O Council and the National Operations Center of Excellence
- Develop a baseline for positioning ITE as the thought leader for Connected and Autonomous Vehicle Public Policy
- Develop an ITE District, Chapter, and Section Outreach Plan

In addition, the Institute of Transportation Engineer's TSM&O Council is leading an effort in 2017 on behalf of ITE HQ to determine their position in the Smart Communities space. Rather than try and define the solution and implement, the charge is to build this concept from the ground-up. Smart Communities, as defined by ITE, include the urban core that Smart Cities is based on, and adds in the other geographical areas ITE members encompass, including suburban, rural, and others.

As part of this effort, the TSM&O Council is requesting a 45 to 60-minute interactive session at your District Annual Conference and/or local Section meeting. This session will be dedicated as a facilitated discussion to answer some of the following questions:

- How has the concept of smart cities/communities been received in your District?
- Is there an appetite for smart city/community education?
- What do you need to make your community "Smart?"
- Are there immediate questions you need answered?

The outcome of this meeting will be compiled with other District/Section area meetings and delivered to ITE HQ. This will set the Smart Communities Strategic Direction for 2018. It is very possible that a compilation of minutes from similar presentations at other ITE Section and District meetings will be presented in a future ITE Journal article.

How can I get involved in the TSM&O Council?

It's easy - just log onto the ITE Community and join or contact Eric Rensel ([erensel@gfnet.com](mailto:erensel@gfnet.com)), Anthony Castellone ([acastellone@pennoni.com](mailto:acastellone@pennoni.com)) or Doug Gettman ([doug.gettman@kimley-horn.com](mailto:doug.gettman@kimley-horn.com)).

We are actively looking for younger ITE members to assist with Outreach to/from our Council to your Section / District - join today and tell us what your passion is!

# ANNE BREWER SCHOLARSHIP OPPORTUNITIES

By Sandra Beck, ITS Florida

The ITS Florida Scholarship Subcommittee annually solicits and recommends candidate(s) for the scholarship(s). Previous student participants representing the following universities have included:

University of Florida, University of South Florida, University of Central Florida, Florida Atlantic University, and Florida International University. Two scholarships are typically awarded at the annual meeting.

Under the Anne Brewer Scholarship there are two types of scholarships available. The ITS Florida Academic Scholarship and the Erica Biosak Training and Certification Scholarship. Both deadlines for application submission are **September 15, 2017**.

The ITS Florida Academic Scholarships are available to full-time undergraduate and graduate students (at the time of the Scholarship Awards), of any accredited Florida University or College. Principal course work shall include a major in a field directly related to transportation, ITS systems, transportation engineering, or a related field subject to the approval of the Awards Committee. The scholarship amount is \$2,500 for graduate students and \$2,000 for undergraduate studies. The number and amount of scholarship awards may fluctuate depending on available funding and qualifying students.

To apply for the Academic Scholarship, complete the online form at: [https://fs16.formsite.com/ITSFlorida/Scholarship\\_Academic\\_com/index.html](https://fs16.formsite.com/ITSFlorida/Scholarship_Academic_com/index.html)

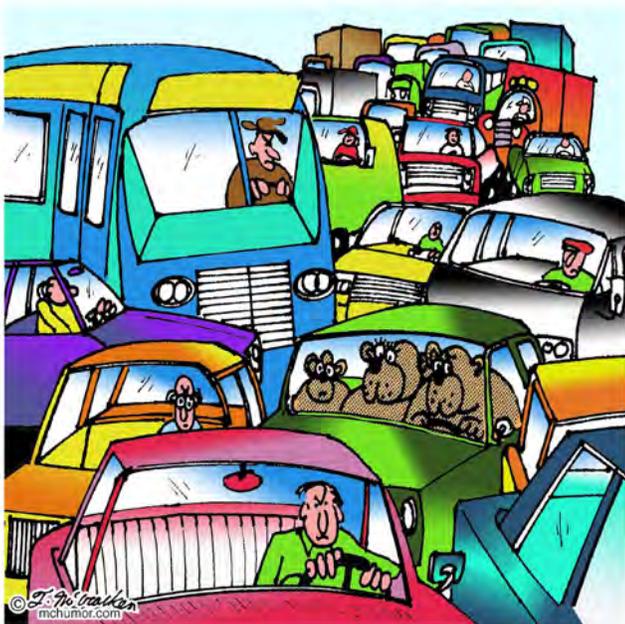
The "Erika Biosak Training and Certification Scholarship" is available to public\*\*\* and private sector nominees in which their respective organizations are members of ITS Florida. The scholarship assists those seeking to advance their skill set through additional training and certification courses, to better serve their organizations and the ITS industry in Florida. This scholarship amount is up to \$1000 reimbursement for successfully completing coursework.



To apply for the Training and Certification Scholarship, complete the online form at: [https://fs16.formsite.com/ITSFlorida/Train\\_Cert\\_Scholarship/index.html](https://fs16.formsite.com/ITSFlorida/Train_Cert_Scholarship/index.html)

*\*\*\*Please check your organization's policy regarding scholarship acceptance.*

## BREAK TIME



THE THREE BEARS AND GRIDLOCK:  
THE STORY OF A FAMILY WHOSE HOUSE WAS  
RAIDED WHILE THEY WERE STUCK IN TRAFFIC.

C O Y R I U L T O Y P M N Z X  
H Z A R K M G X F X Q O A J E  
X T E C H N O L O G I E S B W  
P C K J M L E U G T M D E O J  
D R L R M K U Q A S A J Z X O  
Z S O B O Z Z R A K N Q S S V  
Z F B C L W U N E T A E K A G  
W T W O L G T M P V G C Q G N  
N F M H I A E E A N E I O I M  
X Y X F Y R M I N D M W K E H  
R P N W G R P A V J E S R C M  
Z O S I V S C Y T O N F M L H  
C D N A A I A V N I T H U Q C  
W G X A R T N U S J O E W T M  
W V A Q V Y U I B P Y N Q W F

CONFIGURATION	EMERGING	MANAGEMENT
NETWORK	PROCLAMATION	TECHNOLOGIES
	SUNTRAX	

# GOVERNOR'S HURRICANE CONFERENCE AWARDS

## Governor's Hurricane Conference Public Information/Education Award: Florida 511

The Florida Governor's Hurricane Conference presented the 2017 Public Information/Public Education Award to FDOT's Florida 511 Traveler Information System on May 18. Hurricane Matthew affected the eastern part of Florida October 4 - 9, 2016. Florida 511 kept residents and visitors updated on road and bridge closures. During this period, FL511.com had more than 100,000 visitors, and the Florida 511 message was seen more than 22 million times through traditional print, online, and broadcast media coverage; and Twitter.



Russell Allen holding both awards.

## Governor's Hurricane Conference Innovation Award: Russell Allen

The Florida Governor's Hurricane Conference also presented ITS Program Development Engineer Russell Allen the 2017 Innovation Award. Through Russell's leadership and engineering prowess, the Florida Department of Transportation developed the new Florida 511 Traveler Information System. This unique and innovative system assists drivers with their daily commutes, and in the field of hurricane preparedness, response and recovery. During and after hurricanes Hermine and Matthew, Florida 511 was an essential tool for the traveling public, emergency managers and the news media.

## CONGRATULATIONS TO CARL MORSE ON HIS RETIREMENT ON MAY 31, 2017!

Carl Morse retires after 38 plus years with Florida Department of Transportation (FDOT). His last position was Traffic Signal Equipment Review Program Manager.

Carl started his career working in 1978 at the State Traffic Operations office of FDOT in a shared position with the Research and Studies Section and the System Section. Some of the duties and responsibilities were editing and shooting 35mm Photolog film of the State Highway System, performing field reviews for Jacksonville Mathews Bridge and Broward County Truck Lane Restriction projects, Trailblazing Sunshine Parkway toll road, repairing traffic counters and blue lights on the Bureau of Weight's vehicles, maintaining the Approved Product List (APL) for traffic control devices, and evaluating and burning-in traffic control assemblies before FDOT became decentralized. He assisted with the development of the IMSA Traffic Signal Inspection Course conducted by Buckholtz Inc.

Carl has witness the advancement of technology starting with mechanical dial motors, solid state circuitry, digital microprocessor, to the latest Advanced Transportation Controller platform.

Carl is recognized nationally for his expertise and experience in evaluating and perfecting the performance operations of new traffic control signal devices, especially the LED Signal Modules, the Pedestrian Countdown Signal and the Rectangular Rapid Flashing Beacon Assembly (RRFB). He tested and developed specifications for traffic signal controller assembly to provide control of LED Street

Lighting to support FDOT's Intersection Lighting Innovation for Pedestrian Safety during nighttime operations.



Carl Morse receiving award from Trey Tillander, Director, Office of Traffic Operations & Engineering

He was the Report Coordinator for the Intelligent Vehicle Highway Society (IVHS) / FDOT Intelligent Transportation System Quarterly Progress Report, which was the predecessor to the SunGuide Disseminator.

Carl is a University of Florida (UF) graduate and is an active member of the Big Bend Florida Chapter, Institute of Transportation Engineers (BBFCITE).

Carl's wife Laura also worked in the FDOT Aviation Office, and they are blessed with two children, Matthew and Nathan, both currently attending UF. Everyone in the Traffic Operations family thanks him for his service and wishes him the best of luck in his future endeavors.

# CONTACTS

## DISTRICT 1

Keith Slater, DTOE  
Mark Mathes  
FDOT District 1 Traffic Operations  
801 N. Broadway Avenue  
Bartow, FL 33830  
(863)-519-2490

## DISTRICT 2

Jerry Ausher, DTOE  
Peter Vega  
FDOT District 2 Traffic Operations  
2198 Edison Avenue  
Jacksonville, FL 32204  
(904) 360-5630

## DISTRICT 3

Steve Benak, DTOE  
FDOT District 3 Traffic Operations  
1074 Highway 90 East  
Chipley, FL 32428-0607  
(850) 638-0250

## DISTRICT 4

Mark Plass, DTOE  
Melissa Ackert  
FDOT District 4 Traffic Operations  
2300 W. Commercial Blvd.  
Ft. Lauderdale, FL 33309  
(954) 777-4350

## DISTRICT 5

Jim Stroz, DTOE  
Jeremy Dilmore  
FDOT District 5 Traffic Operations  
719 S. Woodland Blvd., MS 3-562  
DeLand, FL 32720-6834  
(386) 943-5310

## DISTRICT 6

Omar Meitin, DTOE  
Javier Rodriguez  
FDOT District 6 Traffic Operations  
1000 NW 111th Avenue, MS 6203  
Miami, FL 33172  
(305) 470-5312

## DISTRICT 7

Ron Chin, DTOE  
Chester Chandler  
FDOT District 7 Traffic Operations  
11201 N. McKinley Dr.  
Tampa, FL 33612  
(813) 615-8600

## FLORIDA'S TURNPIKE ENTERPRISE

John Easterling, DTOE  
Eric Gordin  
Florida's Turnpike Enterprise  
PO Box 9828  
Ft. Lauderdale, FL 33310-9828  
(954) 975-4855

## CENTRAL OFFICE

Trey Tillander  
Director,  
Traffic Engineering and Operation Office  
(850) 410-5419

Fred Heery  
State TSM&O Program Engineer  
(850) 410-5606

Jeff Frost  
State TIM/CVO Program Manager  
(850) 410-5607

Alan El-Urfali  
State Traffic Services Program Engineer  
(850) 410-5416

Elizabeth Birriel  
Traffic Engineering Research Lab Manager  
(850) 921-7361

## PHYSICAL ADDRESS

Rhyne Building  
2740 Centerview Drive, Suite 3B  
Tallahassee, FL 32301

## MAILING ADDRESS

Burns Building  
605 Suwannee Street, MS 90  
Tallahassee, FL 32399

