



Florida State Transportation Innovation Council (STIC)

Quarterly Meeting Notes

October 3rd, 2018

1. Welcome New STIC Members

Brian Blanchard opened the meeting by welcoming the new STIC members to the STIC Council: FDOT: Marsha Johnson, Lorraine Moyle; Ananth Prasad with FTBA; Andre Lauzier with American Council of Engineering; Pei-Sung Lin with LTAP

2. Updates on EDC-4 Initiatives

- **Automated Traffic Signal Performance Measures (ATSPMs):** Mr. Trey Tillander/Mr. Raj Ponnaluri
 - ATSPM Status for EDC, from Raj Ponnaluri: Florida Department of Transportation (FDOT) adopted FHWA's EDC-4 in 2017 to deploy innovative solutions such as ATSPM on at least three (3) local agency systems by 2018. In the summer of 2017, FDOT deployed ATSPM at City of Tallahassee along the Mahan Drive (US 90) corridor. Using ATSPM metrics, the City has since implemented several improvements to signal timing - and has expanded the system to some 40 signals. In July 2017, Seminole County, with the help with FDOT District 5, upgraded and expanded their ATSPM system. The County now has close to 380 signals live and collecting data on their ATSPM system. District 5 is also implementing enhancements to ATSPM, such as support for Miovision. For City of Tampa and Hillsborough County in District 7, FDOT installed and configured ATSPM for 15 signals along the Fowler Avenue corridor in fall 2017; an expansion is planned.

Throughout all these efforts, FDOT has provided extensive training and information sharing to local agency partners. Moving forward, FDOT plans to advance the deployment based on lessons learned from these deployments.

- **Using Data to Improve Traffic Incident Management:** Mr. Jeffery Frost/ Mr. Trey Tillander
 - The FDOT Traffic Incident Management Team is in the final stages of developing a public-facing performance measure dashboard to be displayed on our website (www.floridatim.com). The dashboard will provide the current and previous fiscal year's data for the three performance measures (Roadway Clearance Time-RCT, Incident Clearance Time-ICT, and Secondary Crashes-SC) identified in the EDC-4 Initiative. In addition to the EDC-4 PM, we will be displaying an average time on scene for the Road Ranger Service Patrol Operators. The information is received directly from SunGuide and will pass an internal audit prior to posting on the dashboard. The dashboard will be updated monthly.

In 2011, the Florida Highway Patrol (FHP) began collecting all three PM's (RCT, ICT & SC) statewide. With the Computer Aided Dispatch (CAD) integration, FHP calls are imported directly into SunGuide after approved by a TMC Operator. This allows our dashboard component to provide separate statewide averages for all EDC-4 PMs on crashes alone. It also provides the ability to include incidents that occur on roadways outside of the freeway system. FHP now includes all 3 TIM measures in their quarterly performance management system.

- **Safe Transportation for Every Pedestrian (STEP):** Mr. Joe Santos/Mr. Alan El-Urfali/Mr. Trey Tillander
 - Florida Department of Transportation (FDOT) adopted FHWA's EDC-4 cost effective countermeasures to address pedestrian safety in Florida. The following is an update on Safety Transportation for Every Pedestrian (STEP) countermeasures:
 - **Road Diets** are processed and implemented by the guidance and requirements contained in Chapter 126, Lane Elimination Projects, of the FDOT Design Manual. Projects are submitted by local agencies, MPOs, TPOs or Districts for review and approval through the Department's multi-disciplinary offices including Planning, Roadway Design and Traffic Engineering & Operations. To date there are 5 Lane Elimination projects completed and 1 is currently under construction.
 - **Pedestrian Hybrid Beacons (PHBs)** installation guidance and criteria is contained in Section 3.8 of the Traffic Engineering Manual (TEM). Districts have been installing PHBs when warrants are met in accordance with the MUTCD. To date, there are approximately 25 locations where PHBs are installed on the State Highway System. FDOT is in the process of establishing a network GIS database for continuous monitoring and evaluating safety and operational performance.
 - **Pedestrian Refuge Islands** are recommended at uncontrolled approach locations when vehicular volumes are greater than 12,000 ADT and/or where pedestrian crossing distances exceed 60 feet. Districts have been installing pedestrian refuge islands consistently in accordance with Section 3.8.5 (5) of the TEM. FDOT is in the process of inventorying locations for monitoring and evaluation purposes.
 - **Raised Crosswalks** are considered as facility enhancements in conjunction with marked crosswalks on low volume roads. Installation guidance is provided in Section 3.8.6 (2) of the TEM. FDOT is in the process of inventorying locations for monitoring and evaluation purposes.
 - **Crosswalk Visibility Enhancements** such as lighting and enhanced signing and markings are required for all new midblock crosswalks in accordance with TEM Chapter 3.8. Retrofit lighting at existing crosswalks is also being implemented through Roadway Design Intersection Lighting Initiative. FDOT is in the process of inventorying locations for monitoring and evaluation purposes.

NOTE: STEP was selected as one of the initiatives for FDOT to continue to pursue with EDC-5.

- **Collaborative Hydraulics Advancing to the Next Generation of Engineering (CHANGE):** Mr. Carlton Spirio
 - We are currently evaluating the 2-Dimensional (2-D) modeling software, which correlates to the Developmental Stage for this Drainage Initiative. Several of the Districts have been able to model bridges using the Sediment and River Hydraulics (SRH) -2D software. The bridges selected by these Districts were already evaluated using a 1-D HEC RAS models. Based on the initial results, the modeled 2-D design stages closely resembled those that were produced by the 1-D model; however, the velocity and flow distributions, along with the angle of attack were much different. These results were not anticipated, but appear consistent with the findings of other States participating in this EDC -4 Initiative. The 2-D models are being re-examined to ensure the results are appropriate for the site-specific conditions associated with both the channel characteristics and bridge design.

Over the next few months, we will be conducting teleconference meetings to further discuss the results of the modeling and identify additional bridge candidates to further evaluate the ease of use and

benefits achieved using this software. The current technical support provided by FHWA has been effective and we (FDOT) have gained worthy insight into the modeling concerns that have arisen on several of the projects being evaluated.

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- **Pavement Preservation (When, Where, and How):** Ms. Alisha Wetherell/Mr. Ramon Gavarrete/Mr. Rafiq Darji
 - **Current Deployment Efforts:** As part of EDC-4 Pavement Preservation deployment efforts and to address further needs of the local agencies, FHWA has organized additional two training workshops and one peer exchange. The two workshops are scheduled to occur in October 2nd (Orlando) and October 4th (Marianna, big bend area) and one Peer exchange to occur in Tampa on November 27.

On October 2, 2018, the Orlando workshop took place at the Lynx facility from 8:30am to 4:30pm. In total, there were 51 registrations for this course. Due to low registration numbers, the Marianna workshop has been canceled. FHWA will work with locals to reschedule this workshop at a different location to meet the demand and interest.

The Peer Exchange will take place during the upcoming FACERS conference, on Tuesday, November 27, 2018 in Tampa. The primary goal of this peer exchange is to engage and educate the local agency/county decision makers on the benefits of pavement preservation activities. Additional information can be found at the following registration link, <https://www.eventbrite.com/e/edc-4-pavement-preservation-peer-exchange-tickets-50504421083>.

Software Distribution: A simple to use Preservation tool that was developed under the SHRP-2 programs was distributed to the locals. The Preservation tool can help the local agencies in selecting most economical preservation treatment option for a specific project. A demonstration on how to use the tool was made during one of the workshops.

Summary on face-to-face Trainings:

- Two-day training - October 30 & 31, 2017, held in Ft. Lauderdale (concentrated on When and Where activities)
- Two-day training - November 1 & 2, 2017, held in Orlando (concentrated on When and Where activities)
- One-day training - October 2, 2018, held in Orlando (concentrated on When, Where and How activities)
- One-day training – TBD (will concentrate on When, Where and How activities)
- One-day Peer Exchange – November 27, 2018 will be held in Tampa

3. Local Agency Innovation Survey Result

Khoa Nguyen, noted that after sending out the list of innovations to the local agencies on the teams, only one response had been received. The goal of the survey was not to force innovations/initiatives on local agencies if they are not needed, but to try to assist to local agencies, and gain an understanding from the local agencies on which initiatives would be beneficial and interested of the local agencies. Suggested the LTAP center would work with the STIC local representatives to identify the local agencies' needs.

Ramon Gavarrete commented that there may be some confusion as to what the definition of what is an innovation. Some of the initiatives, they would just call their regular work and not innovation. However, he is surprised on the response.

Beth Alden, noted that needs vary from MPO to MPO. She has requested for a safety related presentation on the 1st of November and Khoa has it arranged.

Dr. Lin noted that LTAP will do a needs assessment and attempt to find out what is beneficial to the local agency and report back to the council.

4. EDC-5

- EDC-5 Summit - Marsha Johnson noted that the EDC-5 Summit is in Portland, Oregon on November 7th – 9th, 2018. FHWA Division Office has sent out official invitation letters. Please respond to these letters asap. There are deadlines for making travel arrangements in the invitation letters.
- Below is the link to the **EDC-5** webinar recordings, case studies, presentation slides etc.:

EDC-5 Innovation Orientation Webinar Recordings -The recordings and presentation materials for all the EDC-5 Orientation Webinars can be found on the EDC public website at the following link:

https://www.fhwa.dot.gov/innovation/everydaycounts/edc_5/edc5-orientation-webinars.cfm