

Oklahoma State Transportation Innovation Council (STIC)

Meeting Minutes

Thursday, November 7, 2018 at 1:30pm

Location: Association of Central Oklahoma Governments
Board Room

Co-Chairs: Dawn Sullivan, ODOT Director of Capital Program
Basharat Siddiqi, FHWA-OK Division Administrator

EDC-5 SUMMIT DELEGATION REPORT

David Ooten provided a synopsis of the EDC-5 process that was used by Oklahoma and the delegation. 18 states attended the Summit in St. Louis held on October 29-30, 2018. Attendees from Oklahoma included representation from ODOT, FHWA, academia, LTAP, the City of Oklahoma City, and INCOG. A group like this allowed for good interaction and exchange of ideas and viewpoints.

Leading into the Summit, webinars were presented by FHWA (the first time this had been done with the EDC program). Many individuals with interest in the various innovations were invited to these to view together. Post-webinar meetings were held to gather input regarding interest in pursuing the EDC-5 innovations and determining the value of efforts in supporting the transportation community.

At the Summit, a town hall session was held that included Secretary of Transportation Mike Patterson. He noted Oklahoma's interest in pursuing innovations and the importance of supporting a culture of innovation.

Of the 10 innovations presented by EDC-5, 9 had support from the delegation. The caveat to engaging with this many is that work and support is required by those involved with these innovations. Leads (champions) have been generally identified for the nine.

Post-summit meetings will be held with the champions and selected other to identify specific needs, targets and strategies for each innovation. The group was solicited to volunteer for any innovation of a particular interest.

Louisa Ward noted the STEP video (from the FFY17 incentive funding project) was presented at the Summit. The meetings with the champions will be scheduled soon to confirm commitment to the innovations, establish baselines and set the 2-year goal for where we want to be with the innovations in accordance with implementation stage. This needs to be done for each innovation by mid-January.

Dawn identified that there are milestones that have to be met and reporting requirements for this program. The formal part of acceptance does require a commitment to timeframes and definitions associated with the EDC program. Formal commitments are still needed to support these innovations through time or various equipment needs, such as with the UAS innovation.

In response to Basharat Siddiqi solicitation that Summit attendees share any lessons learned or input from Summit attendance, Dr. Zaman, OU, noted that the Oklahoma delegation was one of, if not the largest delegation. Dr. Zaman also stated that formal support of the innovations should be selective, due to the various needs required. Debbie Miller, City of OKC, added that she found value in hearing the different perspective when discussing the innovations.

EDC-4 INNOVATIONS

Traffic Incident Management System (TIMS) – Alan Stevenson/Richard Jurey

Over 10,000 responders have been training through this program. ODOT has over 400 trained. More training sessions are currently scheduled. Alan complemented that trainers who have covered the state for this purpose. Career-tech centers have supported this effort and standard locations have been established in the four quadrants of the state for the purpose. LTAP partners were also recognized for their support with the effort.

Data-Driven Safety Analysis (DDSA) – Alan Stevenson

ODOT is working with DPS. A website has been developed and is in a testing phase with ODOT and DPS for data entry. The website should go live soon.

Road Weather Management–Weather Savvy Roads – Alan Stevenson/Reina Wilson

170 tablets have been installed in vehicles to date with another 22 scheduled for next week. There will be a total of 229 installations when completed. The snowplow video images are being integrated into okroads.org program, which will allow visual viewing of conditions. Users can also select specific snowplow to view that area. The last hour of video will be posted on the website. Trying to complete this within 2 weeks. Beta testing has been performed during regular work conditions, as there has not been any recent snow events. A total of 600 images can be housed on the server.

Ultra High Performance Concrete Connection for PBES – Walt Peters

FHWA-OK, specifically Zac Gutierrez, organized a workshop on October 10. It was well attended and appreciation of for the use of AGC's facility was noted. A demonstration was held at OU on October 11 and went smoothly. The Corps of Engineers are considering using UHPC to connect full-depth panels on a project on SH-71 bridge over Lake Eufaula. Construction would start in summer 2019.

STIC INCENTIVE PROJECTS

Standard Drawings for Precast Concrete Drainage Structures – Louisa Ward for Caleb Austin

This project is almost complete, standard drawing have been reviewed and the project should be completed within the next month.

Development of Standard Drawings for Low-Cost Bridge Options for Use by Local Public Agencies on Low-Volume Locally Owned Roads – Shannon Sheffert

ODOT met with EST consultants to discuss this effort and the relationship to the ODOT bridge bundling effort. EST will provide further guidance regarding precast bridge options. Jared Schwennesen noted that 3 different bundling efforts were submitted for incentive funding.

Proposal for Demonstration of Rubberized Asphalt Concrete Using Recycled Tires – Kevin Suitor

The funding between ODOT and DEQ is in place. Equipment purchase will be made soon. A few projects have been examined but were unable to be used for this work. Kevin is looking a 3-4 more projects with interest with April/May target for construction. ODOT Video will be used to help tell the story of this project. Dawn echoed the use of video and commented on the value of video to articulate work done and realized.

Peer Exchange on Truck Platooning – Dawn Sullivan

This project is in the works. The Secretary has formed a statewide task force, Driving Oklahoma, to identify and look into requirements related to autonomous and automated vehicles. This task force consists of a wide-array industry partners associated with this topic. The ACOG Policy Committee has expressed a level of concern related to safety with large truck platoons and vehicle interaction and has been interactive with the task force. Human acceptance of the technology is a known issue.

John Sharp, ACOG, was asked to provide a summary of task force focus. He noted that it is in a learning mode currently toward developing a common understanding of the issue and that the work of the task force has been good.

STANDING COMMITTEE ON SPECIAL INITIATIVES (SCSI)

David Ooten said the SCSI has been working on process updates to the Charter, specifically examining the selection of annual STIC incentive funding. The committee met and markup language has been provided to the Co-Chairs for review. Other aspects of the charter review have included STIC structure and roles of the committees and members.

OTHER INNOVATIONS

Craig Moody identified that OSU will offer a railroad engineering course. Dr. Joshua Li is leading this effort and noted that both graduate and undergraduate can take the course, which was filled very quickly after it was posted. Basharat commented on the tie to the OKC streetcar program.

Dr. Zaman discussed a project being developed toward developing a smartphone app to work with rail crossings to provide warnings via that method. Craig Moody commented that rail crossing safety is an issue of concern and that this project would help provide another avenue to address public safety.

NEW BUSINESS

Basharat noted that there \$100,000 available for FFY198 STIC Incentive Program and noted the AID (Accelerated Innovation Deployment) program has \$1 million available on a competitive basis. Input toward these programs was encouraged input.

Basharat commented on the STIC charter update effort and gave kudos to the SCSI for their work. Louisa Ward identified Pamela Jurney, Richard Jurey, Dr. Zaman and Mikie Hinkston as SCSI members who were involved with this.

Next Meeting – Tentatively scheduled for January 2019