



State Transportation Innovation Council (STIC)

Innovation in Motion

A newsletter with highlights from the STIC

INNOVATE

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[2020 STIC TAG Leader Transitions](#)

This year marked the end of the two-year term for the STIC's four Technical Advisory Group (TAG) Leaders. Thank you to the outgoing TAG Leaders for their support, dedication and hard work in advancing innovation in Pennsylvania! Under their leadership, 10 new innovations were submitted to the STIC and are currently being prepared for statewide deployment.

- **Design TAG:** Karen Michael, PennDOT District 2
- **Construction and Materials TAG:** Harold Hill, PennDOT District 4
- **Maintenance TAG:** Rich Roman, PennDOT District 4
- **Safety and Operations TAG:** Gavin Gray, PennDOT Bureau of Maintenance and Operations

All four TAGs welcomed new TAG Leaders and Assistant TAG Leaders. The STIC is excited to work with the new TAG leadership to continue developing and deploying innovative and proven processes, tools and techniques throughout Pennsylvania!

- **Design TAG:** Rachel Duda, PennDOT District 12, TAG Leader; Chris Kufro, PennDOT District 5, Assistant TAG Leader
- **Construction and Materials TAG:** Steve Fantechi, PennDOT District 2, TAG Leader; Kevin Keefe, PennDOT District 8, Assistant TAG Leader
- **Maintenance TAG:** Dean Poleti, PennDOT District 11, TAG Leader; Matthew Burkett, PennDOT District 10, Assistant TAG Leader

- **Safety and Operations TAG:** Ashwin Patel, PennDOT District 6, TAG Leader; Doug Tomlinson, PennDOT Bureau of Maintenance and Operations, Assistant TAG Leader

STIC Incentive Funding Project Recipients Announcement

The STIC Incentive Program offers technical assistance and funds - up to \$100,000 per STIC per year - to support the costs of standardizing innovative practices. Two projects in Pennsylvania were selected to share the \$100,000 in FHWA STIC Incentive Program funding, with a 20 percent non-federal match up to \$25,000.

- **Unmanned Aerial Systems (UAS) for Crash Reconstruction:** A partnership with the Pennsylvania State Police and the Pennsylvania Turnpike Commission to quickly assess and reconstruct roadway crashes using UAS
- **Augmented Reality in Transportation:** To purchase and implement necessary equipment and technology to support PennDOT's digital delivery efforts

Live on the STIC website! Check out the recently launched [STIC Incentive Program page](#) on the STIC website to learn more about the STIC Incentive Program funding as well as the Pennsylvania projects that have received funding since 2014.

Innovations Advanced for Deployment

At the July STIC Business Meeting, three innovations were presented to STIC Members for advancement to PennDOT Highway Administration for deployment.



Hot Pour Mastics

Aggregate-strengthened rubberized sealant, can be used throughout the year for large cracks and small potholes in concrete and asphalt.

[Learn more...](#)

Certified Concrete Finishers Course

Classroom and practical, hands-on training help to eliminate mistakes in concrete finishing that can result in costly repairs or reconstruction.



Predictive Analysis for Work Zones (Freeval)

A freeway analysis tool based on the Highway Capacity Manual, Freeval is used to analyze likely effects of events like work zones on roadways.

New Maintenance Innovation in Detailed Development

The Maintenance TAG introduced a new innovation at the July STIC Business Meeting. The Snowplow Cameras and Automated Vehicle Locator (AVL) System will enhance the existing AVL system by integrating cameras on snowplows. This will make real-time road conditions available to the public through the [511PA system](#) and improve situational awareness for PennDOT, the Pennsylvania Emergency Management Agency, and other agencies.



View from Minnesota DOT snowplow camera

Innovations in Motion

Innovations across Pennsylvania are making roadways safer, improving efficiency in construction projects, and utilizing the latest technology.

PennDOT District 12 implemented a **Road Diet** in Westmoreland County to help calm traffic through the Borough of Youngwood. The project included reducing the travel lanes from 12 to 11 feet, adding parking and improving sidewalks.

[Learn more...](#)

PennDOT is taking a leading role nationally in advancing **e-Construction and Partnering (eCP)**, one of the [Every Day Counts \(EDC\)](#) program innovations set by the Federal Highway Administration (FHWA). The goals of the mobile construction program are to provide tools that increase field staff productivity, transform processes through efficient technology, and improve data collection and reporting.

[Learn more...](#)

PennDOT is moving to embrace the world of **three-dimensional (3-D) design** to streamline and enhance the project design and construction process in ways that are very fitting for a 21st Century organization. [Learn more...](#)

Mark Your Calendar!

The next STIC Business Meeting is November 18, 2020

For more information, please contact the STIC Team at penndotstic@pa.gov.