



State Transportation Innovation Council (STIC)

Innovation in Motion

A newsletter with highlights from the STIC

INNOVATE

DEPLOY

EDUCATE



This edition of the STIC *Innovation in Motion* e-Newsletter highlights recent updates to Sequential Dynamic Lighting Curve Warning Systems, an innovation that can assist in reducing the number and severity of single vehicle, run-off-the-road crashes.

This month's e-Newsletter also highlights PennDOT's *Innovation in Motion* Webinar Series, which kicked off May 9 with a look at how technology is changing the transportation landscape in Pennsylvania. If you missed the webinar, we've included a link to the recording below as well as information about upcoming webinars. Additionally, check out the article featuring the innovative solution on how to address the shortage of truck parking in Pennsylvania from the winning team of this year's PennDOT Innovations Challenge.

Another Tool in the Transportation Toolbox

Sequential Dynamic Lighting Curve Warning Systems Signaling the Way to Safety

A large percentage of crashes each year are single vehicle, run-off-the-road crashes. A [Sequential Dynamic Lighting Curve Warning System](#) is a safety countermeasure that alerts motorists and guides them through sharp curves. These systems are typically used along curves where there have been a high number of run-off-the-road crashes. In addition to fewer crashes, use of these systems leads to improved advisory speed adherence and a decrease in crash severity.

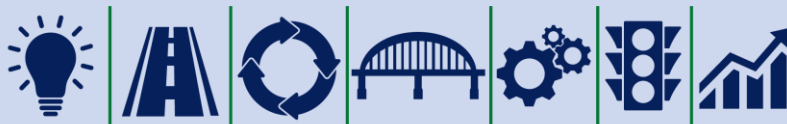
As of March 2023, this safety countermeasure has been piloted at six locations in PennDOT Districts 1, 10 and 11, all based in western Pennsylvania. Following these pilots, a [lessons learned](#) document was developed to share best practices and provide guidance to others considering use of these systems. While not a universally applicable solution, Sequential Dynamic Lighting Curve Warning Systems have become another “tool in the toolbox” in Pennsylvania’s continuing efforts to reduce run-off-the-road crashes and improve roadway safety.



What’s Transforming Transportation Today?

PennDOT Kicks Off 2023 *Innovation in Motion* Webinar Series

Focusing specifically on Automated and Connected Vehicles (AVs/CVs) and Electric Vehicles (EVs), the first webinar of the series highlighted how infrastructure must adapt to meet the ever-changing demands of the transportation landscape. Presenters focused on the wide-ranging transportation challenges these transformational technologies can address, their benefits and what’s on the horizon for these technologies in Pennsylvania. A recording of this [webinar](#) is now available.



INNOVATION IN MOTION

Webinar Series



Want to learn about other innovative initiatives happening across PennDOT?

Join us for these **upcoming webinars** that we hope will inspire and spark new ideas for your next great innovative initiative!

Tools of the Traffic Trade

Learn how PennDOT's vision for a less congested, more reliable, and safer roadway network is coming to life through the next generation of online tools to improve work zone safety and traffic incident management.

July 11, 2023

10 a.m. to 11 a.m.

Click [here](#) to add this webinar to your calendar.

Leveraging Technology to Transform the Customer Experience

Learn how PennDOT's Driver and Vehicle Services is working to enhance and transform the customer experience through a variety of technology-driven initiatives.

Sept. 12, 2023

10 a.m. to 11 a.m.

Click [here](#) to add this webinar to your calendar.

PennDOT's Digital Transformation

Learn how PennDOT is leading the way in the digital transformation of project development and electronic construction management.

Dec. 12, 2023

10 a.m. to 11 a.m.

Click [here](#) to add this webinar to your calendar.

The Truck Stops Here

PennDOT Announces 2022-2023 Innovations Challenge Winner

A team of students from Lenape Technical School in Ford City, Armstrong County, has been selected as the statewide winner for PennDOT's [2022-2023 Innovations Challenge](#). The team's proposed solution to this year's challenge, addressing the shortage of truck parking along Pennsylvania's critical cargo arteries, included a plan for affordable, eco-friendly, and innovative rest stops called Eco-Stops. [Learn More](#)



From left to right: American Council of Engineering Companies of Pennsylvania representative Derek Rogers, Associated Pennsylvania Constructors Executive Vice President Robert Latham, winning team members Robert John and Elijah Mumau, PennDOT Executive Deputy Secretary Cheryl Moon-Sirianni, PennDOT District 10 District Executive Brian Allen, and Team Advisor Jason Zimmerman.

**For more information on these and other STIC innovations, email
penndotstic@pa.gov.**

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