

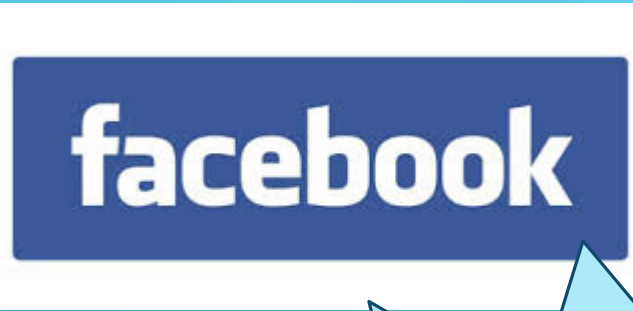


STIC COMMUNICATION & OUTREACH EFFORTS

- ▶ Social Media – Facebook & Twitter
- ▶ Director's Meeting – June 2018
- ▶ Summer Lunchtime Tech Talk
- ▶ NJDOT Tech Transfer Website
- ▶ "The Scoop" – PMGA's Newsletter
- ▶ "Transporter" – NJDOT's Newsletter
- ▶ "Innovator" – FHWA'S Newsletter



SOCIAL MEDIA



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&
Follow





NJDOT DIRECTOR'S MEETING



NJDOT'S TECHNOLOGY TRANSFER WEBSITE



njdottechtransfer.net

LUNCHTIME TECH TALKS!




BUREAU OF RESEARCH **NJDOT Technology Transfer**


Home NJ STIC **Tech Talks!** Share Your Ideas Research Resources Event Calendar

Lunchtime Tech Talks!


Lunchtime Tech Talks! are presentations that highlight current and best practices, give attention to new and emerging issues in transportation, and explore the findings and implications of recent transportation research. Subject matter experts provide information and answer questions. Participants can suggest “hot topics” for future presentations through an end of session survey.




Tech Talk Recap: Smart Cities and Transportation with Kenneth Leonard



Getting through the Green: Smarter Traffic Management with Adaptive Signal Control



CIPGA Works!
The Capital Investment Planning and Grants Administration (CIPGA) Works!



More than a Pretty Face(ade): Meeting Safety and Historic Requirements in Concrete Barriers

The SCOOP

The employee newsletter
of Planning, Multimodal
and Grant Administration

Issue 8

March 2018



The State Transportation Innovation Council (STIC) National Network was born out of Federal Highway Administration's (FHWA) Every Day Counts program. The program helps state DOTs identify and rapidly deploy proven, yet underutilized innovations to shorten project delivery, enhance safety, reduce congestion, and improve environmental sustainability. Each state's STIC is charged with establishing a process in which ideas, innovative techniques and processes can be evaluated and implemented quickly and proficiently.

New Jersey's STIC is sponsored by FHWA's Helene Roberts and led by NJDOT's Assistant Commissioner of Planning, Multimodal, and Grant Administration, Mike Russo. Management and coordination of NJ's STIC is housed within the Bureau of Research, under the direction of Amanda Gendek.

NJ's STIC members are a cross-section of various stakeholders, state and federal agencies, local governments and industry partners that work together to forge an environment of innovation, imagination and ingenuity to pursue specific initiatives and their rapid implementation to deliver a modern and high-quality transportation system to the Garden State. The NJ STIC meets quarterly at the NJDOT Headquarters to discuss innovation deployments, progress updates on innovative initiatives, and suggestions for additional initiatives moving forward.



PMGA

State Transportation Innovation

Continued from page 3

A few of NJDOT's many STIC accomplishments include:

- Purchase of Unmanned Aerial Systems (UAS), with the goal of developing guidance and specifications for bridge inspection and traffic incident monitoring.



Feature image (above) is a High Mast Light Pole on Route 1, Mercer County. Photographed by Glenn Slett

- Local Agency Peer Exchanges for Local Safety Program delivery utilizing Data Driven Safety Analysis tools.
- Purchase and evaluation of the use of tablets by Local Aid for construction and work zone inspection.
- Receipt of the 2017 National Roadway Safety Award for our Roundabout Implementation Program. The installation of a roundabout in Burlington County eliminated the occurrence of right-angle and left-turn crashes. Additional roundabout implementation projects have been completed and are being planned elsewhere in the state.



- Road Diets Implemented along Parkway Avenue here in Mercer County as well as in Passaic County. Road diets offer several high-value improvements at a low cost when applied to traditional four-lane undivided highways. Road Diets enhance safety, mobility and access for all road users and a "complete streets" environment to accommodate a variety of transportation modes.



- The first application of Geosynthetic Reinforced Soil-Integrated Bridge Systems (GRS-IBS) in New Jersey was on Jessup Mill Road Bridge over Edwards Run in Gloucester County. GRS-IBS is an innovation to help reduce bridge construction time and cost, allowing for a reduction in project duration from months to weeks.



- The use of Ultra High Performance Concrete (UHPC) to connect precast deck panels on the Pulaski Skyway, the Nation's largest accelerated bridge construction project. UHPC is a steel fiber-reinforced material that improves durability and simplifies connection details, fabrication and construction.



To learn more about STIC, please visit the following sources:

www.njdottechtransfer.net/share-your-ideas/innovative-ideas/
www.fhwa.dot.gov/everydaycounts
www.fhwa.dot.gov/innovation/stic/

Contributed by Amanda Gendek

PMGA'S "THE SCOOP" NEWSLETTER

- ▶ March 2018 Issue posted on the NJDOT intranet
- ▶ Features an article about STIC and highlights many of our innovations
- ▶ Provides resources on how to contribute ideas and learn more about STIC.





FHWA'S INNOVATOR NEWSLETTER

- ▶ March/April 2018 Cover features NJ's roundabout at the White Horse Circle.
- ▶ Site of 160 crashes over a three year period.
- ▶ Article discusses NJDOT's promotion of roundabouts for State roads as well as our pilot roundabout program for intersections under local jurisdiction.
- ▶ <https://www.fhwa.dot.gov/innovation/innovator/>





WHAT COMMUNICATION & OUTREACH EFFORTS HAVE YOU MADE?

HOW CAN WE HELP YOU SPREAD THE WORD?



NEW IDEA DISPOSITION REPORT

1st Quarter 2018 (January-March)

Two ideas were received that pertain to the use of LED technology in traffic signals and highway lights.




- NJDOT has been using LED for traffic signals for years.
- LED are included on the DOTs Traffic Engineering Electrical Material Spec Index found here (<http://www.state.nj.us/transportation/eng/elec/TSS/english/>)
- LED has been deployed with new projects such as
 - Route 72 Manahawkin Bay Bridges Project
 - I-295/I-76/Route 42 Direct Connection project

INNOVATIVE IDEA INTAKE



Share Your Ideas

- Innovative ideas
- Maintenance concerns
- Other



Got **INNOVATIVE IDEAS** that could help improve transportation in New Jersey?

Share your **IDEAS** with us!

[Have an innovative idea?](#) [Have a maintenance concern?](#) [Need other information?](#)

Submit your idea to NJ STIC...

NJSTIC's mission is to identify, evaluate, and where and when possible, rapidly deploy new technologies and process improvements that will accelerate project delivery and improve the quality of NJ's transportation network.

Innovative ideas should be:

- New technologies or processes
- Rapidly deployable
- Market ready
- Well researched
- Proven technologies, tactics or technologies

Some examples of innovative ideas include:

- Ultra-High Performance Concrete
- Road Diets
- Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS)
- Data Driven Safety Analysis

Does your idea or comment involve...

- Traffic light or sign problem
- Potholes
- Tall grass
- Animal carcass
- Damaged guide rail
- Graffiti
- Litter
- Debris
- Other maintenance problems

Does your idea or comment concern...

- NJDOT phone directory
- Pulaski Skyway inquiries
- Employee verification
- Toll collection
- EZ Pass
- NJ Turnpike issues
- Garden State Parkway issues
- NJ Transit issues
- Damage claims
- Drivers licenses, plates, registration
- Trucking related issues
- Real time traffic & traffic cameras
- Regulations
- Report waste, fraud, or abuse
- Other: Traffic flow issues

[Click for link](#)

[Click for link](#)

[Click for link](#)

Do you have an idea that could help NJDOT accomplish this mission?
Please use the link below to share your idea.

[Click for link](#)

Need more information?

Email DOT-Innovative.Idea@dot.nj.gov



ELECTRONIC INTAKE, TRACKING, AND STATUS REPORTING

Innovative Ideas Form

* required fields

Name *

Which Category Best Describes You?

Organization Affiliation *

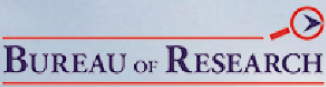

Address *

Phone # *


Idea Title *

Provide a description of your idea *

If known, please provide more information about possible








NJDOT Technology Transfer

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Searchable Database

[Column visibility](#) [Copy](#) [CSV](#) [Excel](#) [PDF](#) [Print](#) Show entries

Tracking No.	Affiliation	Idea Title	Status/Recommendation
 17-01-01	State Official/Employee	Smart phone app for data entry	Do Not Advance
 17-02-01	State Official/Employee	Construction safety	Idea to be redirected
 17-03-01	Other	Lane Adjustment	
 17-04-01	State Official/Employee	Bridge the Gap for NJ Transit	
 18-01-01	NJ State Resident	Congression Management	
 17-01-02	State Official/Employee	Meditation Room	Forward to DOT Suggestion Box



ROUNDTABLE DISCUSSION



1 TO 2 MINUTES EACH



REMINDERS!



National STIC Network Meeting – April 19 2018, 2pm

- Participate in person at FHWA's NJ Division Office or online

STIC Summer Meeting – June 13 2018, 10am, NJDOT HQ

Build A Better Mousetrap Competition – Entries due June 1st 2018

BUILD A BETTER MOUSETRAP COMPETITION

Employees of local or state public transportation agencies often find better ways to do their jobs.

Whether it's a new gadget that improves the quality and safety of a project, or an innovative process that reduces costs and improves efficiency.

Typically, it's the people on the front lines who discover the latest and best practices.

New Jersey's Build a Better Mousetrap Competition provides a great opportunity to share those new ideas with others! We are looking for submissions from employees that have created different solutions to problems or found better ways of doing things.





KY – Bowling Green public works fleet division developed a device to control discharge from mowers along ROWs with parked cars

WV – City of Buckhannon created a device to bend tubing that they needed to construct a farmers market structure at a community park.



PA – developed a road saw hitch receiver/carryer to transport equipment easily and efficiently to and from job sites.



PA – A township public works department developed a salt shed entrance curtain to reduce the exposure of salt to the elements, and thereby preventing the salt from contaminating stormwater runoff.

MD – Dual-Wing Plow was developed to improve the efficiency of snow removal operations, which can do the work of three standard plows, clearing up to 24 feet of roadway in one pass.





- ▶ Deadline to submit entries is June 1st, 2018.
- ▶ Please submit all entries by mail or email to:
- ▶ New Jersey Local Technical Assistance Program
- ▶ 100 Brett Road, Piscataway New Jersey 08854
- ▶ Email: NewJerseyLTAP@gmail.com
- ▶ Janet Leli – 848-445-2906

- ▶ Employees of local or state public transportation agencies (municipalities, counties, parks commissions, NJ Department of Transportation, NJ Transit)



NEW JERSEY
STC

BUREAU OF RESEARCH

NEW JERSEY
Local Technical Assistance Program

Entry Form

Think you've built a better mousetrap? Fill out the entry form below to submit your innovation! We look forward to receiving your entries and best of luck to everyone!

Organization: _____

Contact Person: _____ Phone Number: _____

Email: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Entry Title: _____

Please check the category that this entry is being nominated for:

☐ Inspection and Data Collection (automated/remote means, testing, time)

☐ Asset Management Techniques (GIS, mapping, decision support systems)

☐ Maintenance Tools and Methods (lifters, reachers, modifications, assembly)

☐ Facilities Improvements (storage, access, operations, services)

Problem Statement: _____

<https://cait.rutgers.edu/njltap/2017-build-better-mousetrap-competition>



THANK YOU!