





NEW JERSEY STATE TRANSPORTATION INNOVATION COUNCIL

2018 Spring Meeting April 4, 2018









WELCOME & INTRODUCTIONS

Michael Russo Assistant Commissioner, NJDOT









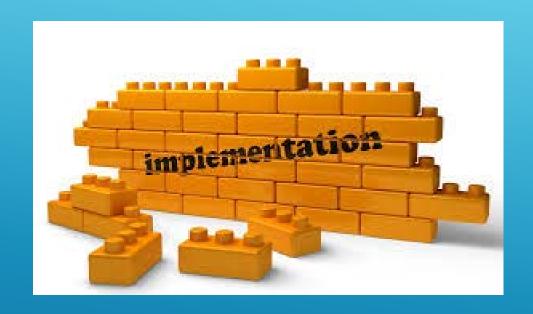
OPENING REMARKS

Diane Gutierrez-Scaccetti Acting Commissioner, NJDOT

Robert Clark
Division Administrator, FHWA



NJ STIC IMPLEMENTATION STATUS



Mike Russo Asst. Commissioner, NJDOT



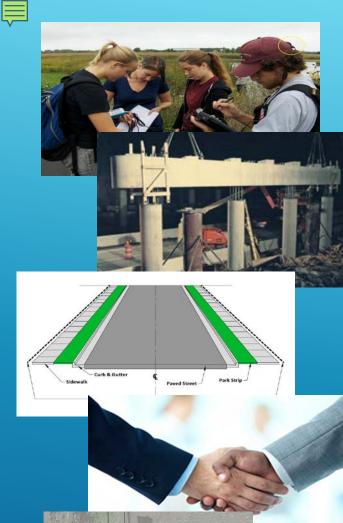
 Organizing for Reliability – evaluated TSM using the US Department of Defense "Capability Maturity Model"

 SHRP 2 Traffic Incident Management Responder Training – 12,000 first responders trained

 Regional Models of Cooperation – established multi-agency program meetings (DOT/MPO)

 Data Models and Tools – developed MAP-21 performance measure platform

• Smarter Work Zones – deployed queue warning and variable speed technology



- Planning and Environmental Linkages (PEL) encourage the use of information developed in planning to inform the environmental NEPA process
- **Prefabricated Bridge Elements and Systems** reduce onsite construction time and mobility impact time when building, rehabbing, or replacing existing bridges.
- Flexibilities in Right-of-Way (ROW) improve coordination of ROW activities with other key project development actions in preliminary design; land acquisition, relocation, utilities accommodation and to certify ROW for a project
- Locally Administered Local Aid Projects: Stakeholder Partnering provide a forum for the exchange of information between NJDOT, FHWA and the LPA's to assist in the delivery of federal aid programs and projects.
- Road Diets offer high-value improvements at a low cost when applied to traditional four-lane undivided highways, enhance safety, mobility and access for all road users.

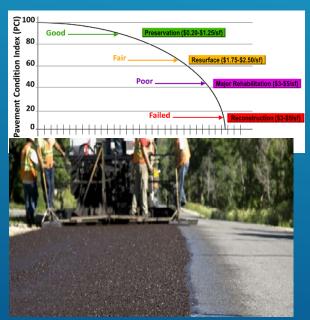




 e-Construction – tablets are being used to collect, review, approve, and distribute highway construction contract documents in paperless environment



 Ultra-High Performance Concrete Connections for Prefabricated Bridge Elements – investigated new application of UHPC (overlaying bridge decks) on a pilot project (Rt. 17 over Central Avenue bridge)



• Pavement Preservation (When and Where) - developed comprehensive pavement strategy (preservation programs) that includes evaluating different pavement treatments, projecting anticipated life cycle and value information, and developing guidance to help determine appropriate treatment selection at project level



NEW JERSEY INFRASTRUCTURE BANK INNOVATIVE FINANCE PROGRAM



David E. Zimmer, CSA Executive Director, NJIB

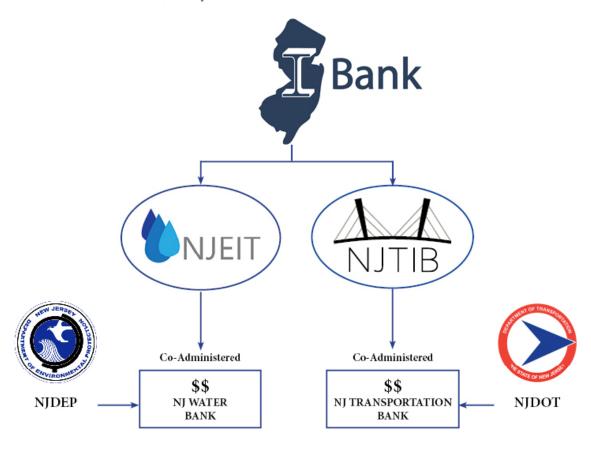
New Jersey Infrastructure Bank

Innovation Council



April 3, 2018

New Jersey Infrastructure Bank's Flow Chart



Mission - Provide and Administer low interest rate loans to qualified borrowers (counties, regional authorities, municipalities, and water purveyors) in New Jersey for the purpose of financing water quality and local transportation infrastructure projects.



Local Transportation Projects –

- Borrower Eligibility Requirement
 - O Must be a Local Government Unit:
 - County
 - Municipality
 - Municipal, county or regional Transportation Authority, or
 - Any other Political Subdivision of the State...

Authorized to <u>construct</u>, <u>operate</u>, and <u>maintain</u> public highways or "Transportation Projects" as defined pursuant to the Act (P.L. 2016, c.56)



Local Transportation Projects –

- <u>Project</u> Eligibility Requirement
 - Must meet definition of <u>Transportation Project</u> in (P.L. 2016, c.56) such as:
 - Public highways (defined),
 - Bridges,
 - Approach roadways and other necessary land-side improvements,
 - Ramps and Grade crossings,
 - Signal systems,
 - Roadbeds,
 - Transit lanes or Rights of Way,
 - Pedestrian walkways and Bridges connecting to passenger stations and servicing facilities,



Must be identified on DOT's "Project Priority List" for the Legislature

Project Approval Processes –

Technical Process

Program staff (DOT / consulting Engineer reviews design for compliance)

Legal Process

 I-Bank Staff and Program Bond Counsel work w/ Sponsor and Counsel to ensure satisfaction of Public Finance Law requirements (well versed thru NJEIT)

Credit Process

- Project Sponsor <u>must</u> provide guarantee to the I-Bank (secures repay obligation)
- o Bond <u>must</u> be backed by a General Obligation tax pledge (G.O.) from the LGU or a sponsoring LGU being served by the project sponsor to collateralize the loan
- o G.O. <u>must</u> be Investmt-grade Rated (limited exceptions-e.g. private rating, QBA)

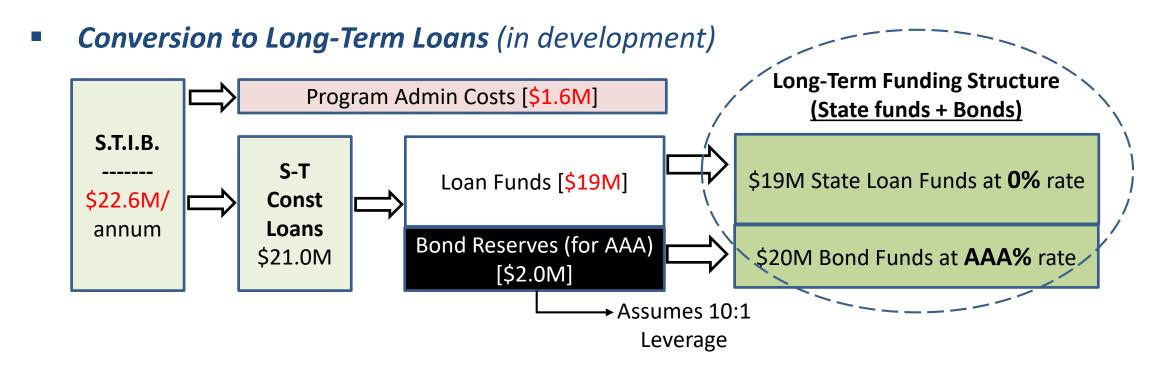


Financial Components –

- **Borrowing Process** in development...
 - Applications will be submitted Rolling = TBD
 - Application Forms Electronic application similar to NJEIT H2LOans = TBD
 - Short-Term Construction Loan (currently up to 3 <u>full</u> State fiscal years)
 - funds Engineering, Planning & Design costs (architects, bond counsel, etc.)
 - funds construction costs through to completion (take out w/ L-T loan)
 - (like a Line-of-Credit; interest charged only on funds drawn for req's)
 - Invoices required (cost-incurrence Program / not reimbursement)



Financial Components – Bonding Program



Savings (Est.) from receiving 49% of funds at 0% for 35 yrs = at least 26-30%



(lower rated LGUs save more)

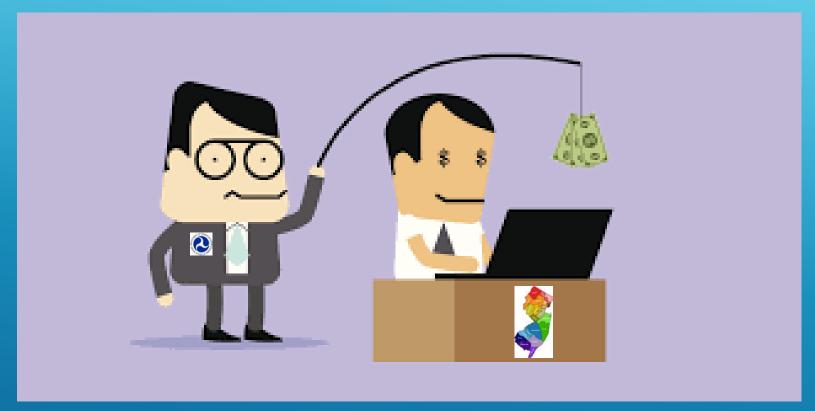
Questions

David Zimmer Executive Director <u>dzimmer@njib.gov</u> 609-219-8604





STIC INCENTIVE FUNDING: PROCESS & OPPORTUNITIES



Amanda Gendek Manager, NJDOT Bureau of Research



- ► NJDOT
- ► MPOs
- ► Local governments
- ► Tribal governments

WHAT DO I NEED?

- Description of the proposed work;
- ► End product/ result;
- Amount of STIC Incentive funding requested;
- Commitment of other funding;
- Budget justification;
- ▶ 20% Match (FHWA = 80%)
- ► Project schedule.

WHAT? Eligible Projects/Activities

- Statewide impact in innovation
- ► Must align with TIDP goals
- ▶ Be eligible for Federal-aid assistance and adhere to applicable federal requirements
- Start preferably within 6 months after approval
 - No later than a year
 - ► Funds expended w/in 2 years

HELP?

FHWA Guidance

www.fhwa.dot.gov/innovation/stic/guidance.cfm

STIC Exec. Team

609-530-5637 or amanda.gendek@dot.nj.gov



WHEN?

Preferred dates below allow us to meet our fiscal year obligations for STIC Incentive Projects.

Preferred Timeline	Activities
October 1 st Federal Fiscal Year Begins	 FHWA STIC Rep notifies NJDOT that solicitation period is open STIC Exec. Team will make formal call for proposals and provide guidance
November 1st December 1st January 1st	STIC Exec. Team sends monthly email reminders for proposals
February 1st	 Proposals submitted to STIC Exec. Team and/or respective STIC CIA Team Leaders Proposals are reviewed and evaluated No later than February 28th
March 1st	 STIC Exec. Team forwards vetted proposals to FHWA STIC Rep FHWA STIC Rep evaluates and may comment on proposals No later than March 15th
March 15 th	 FHWA STIC Rep forwards selected proposals to FHWA Headquarters and awaits a determination No later than March 31st
	 FHWA STIC Rep notifies STIC Exec. Team of determination STIC Exec. Team notifies and provides guidance, if necessary, to secure funding

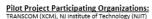
STIC Incentive Funding Request

Pilot Project Title:

Connected Vehicle – Road Service Safety Messages

Pilot Project Sponsor:

New Jersey Department of Transportation (NJDOT)



Description of Proposed Work

NJDOT's Safety Service Patrol staff support motorist and first responder safety. While they are

operating vehicles designed with that their own safety working on the road when personnel are frequently working physically removing vehicles from traor performing motor vehicle repairs.

NJDOT uses multiple types of devices roadways. These devices include ten ignitable or electronic flares, portable the NJ 511 phone and website systen measures deployed and utilized, cras on the road continue.

The automobile manufacturing indus and automated systems fully in place response vehicles would be detected traffic. Until those systems are deplc incidents, stopped police vehicles an

NJDOT is a part of TRANSCOM (XCM) improves communication and techno XCM provides NJDOT incident data to platform however SSP vehicle locatio

Transportation agencies need to leve approaches to continue to provide va personnel working on the road netwo location of its road workers to motor



With this request for State Transportation Innovation Council (STIC) Incentive Funding, NUDOT is looking to sponsor a three year pilot program whereby GPS equipment, procured from the company iCone® would be installed in forty (40) vehicles, split equally between SSP vehicles in Harding and Cherry Hill words.

The iCone® product to be procured utilizing STIC funding is titled "ITS Beacon – Hazard Lights. Vehicle Hazard Light Radio Adaptation". Once install—the administration in the land and an "ON" status whenever the vehicle's emergence.

Upon activation, the GPS location of the truc platforms for dissemination to the public. A: inclusion into a separate non-public layer of 1 beta/test environment until the pilot has bee NUOT will look to expand its agency use of the are equipped to provide information to these the first step towards NJDOT's SSP program b roadways.

Pilot Project Goals

The pilot project seeks to accomplish several Innovation Deployment Program (TIPD) initia and advanced transportation innovation depl Jersey's STIC, NJDOT will accomplish multiple

- Significantly accelerating the adoptio community by creating "smarter and
- Improving highway safety by alerting personnel and enhancing awareness 92.2)
- Developing and deploying new tools, innovation in this specific aspect of h responder safety and traveler inform
- Develop standards and specifications mapping and crowdsourcing applicat
- Evaluation of GPS and cellular data q
- Integration of fleet data into layers o

STIC Incentive Funding Requested

# of Units	Model	Title	Unit	Total Cost
40	CTD-HZ-0.1-W	Connected Tech Hazard Mod 3-yr comm package	\$990.00US	\$39,600.00US

Pilot Project Schedule and Performance Monitoring

Upon approval and receipt of STIC funding, the following is an anticipated pilot project timeline

- Within Two Weeks:
 - Establish Oversight Group
 - Define Working Group participants (Operations, Procurement, Bureau of Equipment, Academia)
 - Establish testing criteria for reporting
- Within One Month
 - Initiate procurement of iCone equipment following NJDOT procurement policy
 - Determine program reporting format, frequency and evaluation
 - Determine error logs for communication failures of equipment
 - Establish cellular signal strength reporting criteria
 - Establish GPS accuracy reporting standards
 - Configure information relays between iCone equipped vehicles, Google, WAZE, HERE and 511NJ systems
- Within Six Months
 - o Select vehicles for installation
 - Receive, install and test equipment within vehicles
 - Complete development of beta/test site on 511
 - Confirm messaging format and delivery to the public with Google, WAZE, HERE
 - Initiate pilot
 - Report to STIC on progress
- Within One Year
 - o Report to STIC on progress and first annual report on pilot project (from date of funding)
 - Evaluate success of the pilot to determine if other State Transportation Agencies (NJ Turnpike Authority, South Jersey Transportation Authority) or other first responder organizations (Garden State Towing Association, Fire Departments, and Law Enforcement agencies) show an interest and capability of participating in the program.

SUBMIT PROPOSALS TO:

STIC Exec. Team

Amanda Gendek <u>Amanda.gendek@dot.nj.gov</u>

Kimbrali Davis

<u>Kimbrali.davis@dot.nj.gov</u>

STIC CIA Team Leaders

Sal Cowan - Mobility & Ops Salvatore.cowan@dot.nj.gov

Robert Signora – Infrastructure Preservation Robert.signora@dot.nj.gov

Dan LiSanti - Safety

<u>Daniel.lisanti@dot.nj.gov</u>



NJ's STIC Incentive Accomplishments

Innovations	Project	Status	Amount				
Federal Fiscal Year 2018							
NJ - STIC Communications Plan	Development of a NJ-specific STIC Communications Plan	Developing Proposal	TBD				
Road Weather Management -							
Weather-Savvy Roads	Connected Vehicle - Road Service Safety Messages	Submitted Proposal	\$39,600				
		2018 Total	\$39,600				
Federal Fiscal Year 2017							
	Hold Local Agency Peer Exchanges for Local Safety Program						
Data-Driven Safety Analysis	delivery utilizing Data-Driven Safety Analysis tools	In Progress	\$18,564				
	Purchase and evaluate the use of tablets for construction and						
e-Construction	work zone inspection.	In Progress	\$32,404				
	Purchase, use, and evaluate Unmanned Aerial Systems (UAS)						
	with the goal of developing guidance and specifications for						
Unmanned Aerial System	bridge inspection and traffic incident monitoring	In Progress	\$47,956				
		2017 Total	\$98,924				
Federal Fiscal Year 2015							
Data-Driven Safety Analysis	Advancement of Data-Driven Safety Analysis	Complete	\$41,600				
a Construction Stakeholder	Advancing the use of mobile devices in the administration and						
e-Construction, Stakeholder	Advancing the use of mobile devices in the administration and	Complete	¢24.464				
Partnering	oversight of the Local Public Agencies program	Complete	\$21,464				
		2015 Total	\$63,064				



NJDOT'S UNMANNED AIRCRAFT SYSTEMS (UAS) PROGRAM



Glenn Stott UAS Program Manager, NJDOT

THE PRESENTATION BY GLENN STOTT WILL BE UPLOADED TO THE NJDOT TECH TRANSFER WEBSITE AT A LATER DATE.



FEATURE CIA TEAM PRESENTATION:

Connected Vehicle – Road Service Safety Messages





Sal Cowan

Director, Traffic Operations, NJDOT



A CRASH HAPPENS





RESPONDERS ARRIVE







NJDOT PERSONNEL DEPLOY ADVANCED WARNING DEVICES







THE ROAD IS "THE OFFICE" FOR SSP EMPLOYEES





HOW CAN WE INCREASE SERVICE PATROL PERSONNEL SAFETY?



BY ALERTING THE **MOTORING PUBLIC** TO THEIR PRESENCE ON THE ROAD WITH CONNECTED VEHICLE **TECHNOLOGY**



Deploy "ITS Beacon — Hazard Lights" Vehicle Hazard Light Radio Adaptation

Posts GPS location and hazard light status

Transmits vehicle ID, location and 'ON' status.

Status posted to XML within 2 minutes.

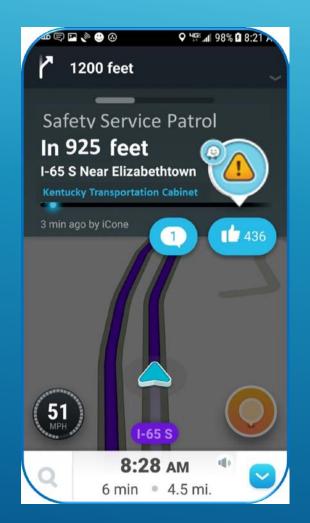
Updates status every 15 minutes.



Re-transmits location if the vehicle moves more than 500 ft.



PROVIDE THEIR LOCATION TO AS MANY APPS AS POSSIBLE





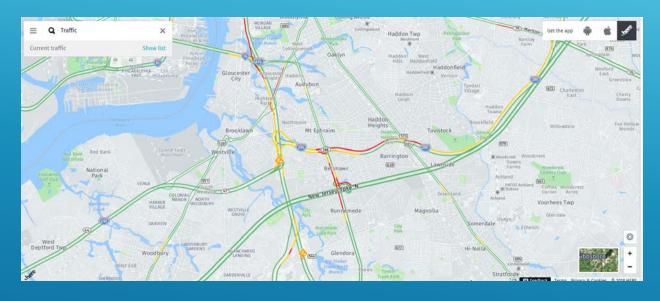


PROVIDE THEIR LOCATION TO AS MANY MAPS AS POSSIBLE

Google Traffic



HERE Traffic





PROVIDE THEIR LOCATION TO OUR 511 WEBPAGE





WHAT WE WILL ACCOMPLISH

Create "smarter and connected" response vehicles on NJ's road network.

Alert motorists to the presence of road service vehicles and personnel

Enhance awareness of the State's Move Over Law (New Jersey Statute 39:4-92.2)

Develop standards and specifications for data delivery from field vehicles to various internet mapping and crowdsourcing applications.

Evaluate of GPS and cellular data quality along various State roadways

Integrate fleet data into layers of the 511NJ platform (a first for New Jersey)



CIA PROGRESS UPDATES: ONGOING INNOVATIONS

CIA TEAM SAFETY

NJDOT – Dan LiSanti FHWA – Caroline Trueman

CIA TEAM MOBILITY & OPS

NJDOT – Sal Cowan FHWA – Ek Phomsavath

CIA TEAM INFRASTRUCTURE PRESERVATION

NJDOT – Bob Signora FHWA – John Miller

- Generate ideas
- Investigate Ideas

- Develop Ideas
- Deploy Ideas

Report to FHWA and the Council



CIA TEAM MOBILITY & OPS

NJDOT – Sal Cowan FHWA – Ek Phomsavath



Automated Traffic Signal Performance Measures

Purpose:

Modernize traffic signal management

Receive high-resolution data

Implement performance-based maintenance and operations strategies

Improve safety and efficiency while cutting congestion and cost





Road Weather Management Integrating Mobile Observations

Purpose:

Feed real-time video and sensor data from fleet vehicles into NJDOT's central video systems

Dashboard cameras and RWIS sensors on twenty (20) vehicles

- Operations Dump Trucks
- Winter Operations
- Safety Service Patrol (SSP)
- Incident Management Response Team

NJ's First Accelerated Innovation Deployment (AID) Grant - \$414,474 (pending)







Using Data to Improve Traffic Incident Management (TIM)

Purpose:

Integrate NJDOT traffic incident systems with NJ State Police Computer Aided Dispatch (CAD)

- Real-time data exchange between partners
- Enhanced motorist information (511 / Waze)
- Supports future CV/AV technologies







CIA TEAM INFRASTRUCTURE PRESERVATION

NJDOT – Bob Signora

FHWA – John Miller



Locally Administered Projects: Consultant Services Flexibilities



<u>Purpose:</u> To provide consultant services to develop and deliver locally administered federal aid projects.

- Implemented Pilot Design Assistance Program for Safe Routes to School and Transportation Alternatives
- ➤ Team will evaluate the program once the projects have been completed



Pavement Preservation (How)

2 Stages - 1st stage - develop a comprehensive pavement strategy

(When and Where) - completed

<u>Purpose:</u> To develop improved construction of pavement preservation treatments (preservation programs)

- Evaluated a number of different pavement treatments
- > Projected anticipated life cycle and value information for the HPTO treatment
- Refining treatment selection & timing
- Developing design guidance help determine appropriate treatment selection





Ultra High Performance Concrete (UHPC) overlay for bridge decks

<u>Purpose:</u> Investigate new application of UHPC (overlaying bridge decks)

- > Pilot project (Rt. 17 over Central Avenue bridge) being considered
- Department/CD Consultant will evaluate further



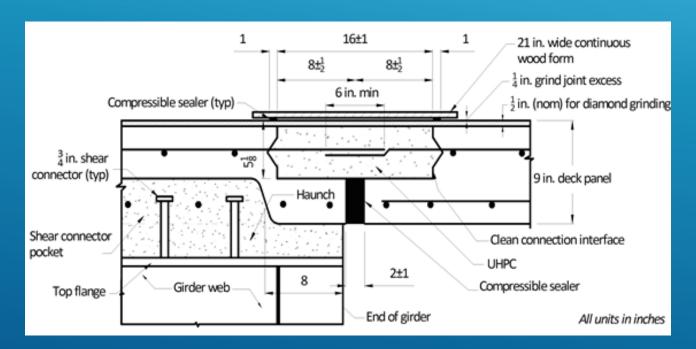




Ultra High Performance Concrete (UHPC) on Link Slabs

Purpose: Investigate new application of UHPC (Link Slabs)

- > Team is being assembled to initiate the research
- Pursuing potential prototype testing via Rutgers CAIT BEAST program





CIA TEAM SAFETY

NJDOT – Dan LiSanti FHWA – Caroline Trueman



Data Driven Safety Analysis- Project Development Local Safety Peer Exchange



Purpose:

Develop and deploy new tools, technology and practices to accelerate the adoption of innovation in all aspects of highway transportation both on the state and local side.

Completion date- June 2018



Data Driven Safety Analysis - Safety Management AASHTOWARE - Safety Analyst



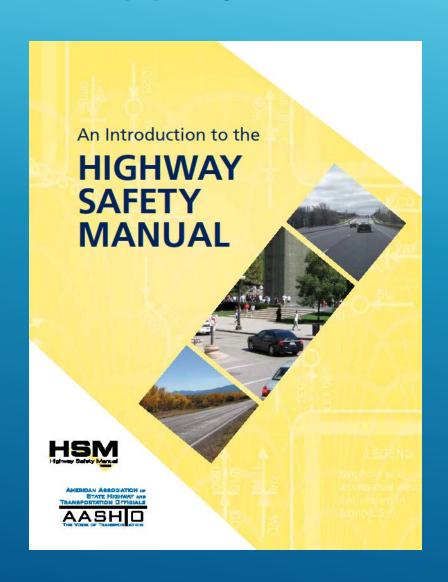
Purpose:

Safety Analyst can be used to proactively determine which sites have the highest potential for safety improvement, as opposed to reactive safety assessments done conventionally.



Data Driven Safety Analysis-

Develop policy for the use of Highway Safety Manual Analysis in Design Exception



Purpose:

The HSM provides a science-based, technical approach that helps State and local agencies take the guesswork out of safety analysis. HSM brings the most significant enhancements to the analysis, decision-making and documentation of the quantitative safety effects of a proposed design exception.



EDC-4 Safe Transportation for Every Pedestrian Workshops focusing on State and Local uncontrolled locations



Purpose:

- To promote the use of Road Diets, Pedestrian Hybrid Beacons, Pedestrian Refuge Island, Raised Crosswalks and Crosswalk Visibility Enhancement.
- Workshop completed in February, 2018



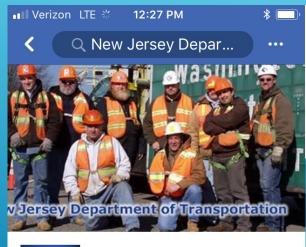
STIC COMMUNICATION & OUTREACH EFFORTS

- ► 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





@NewJerseyDOT















Share Save

Government Organization

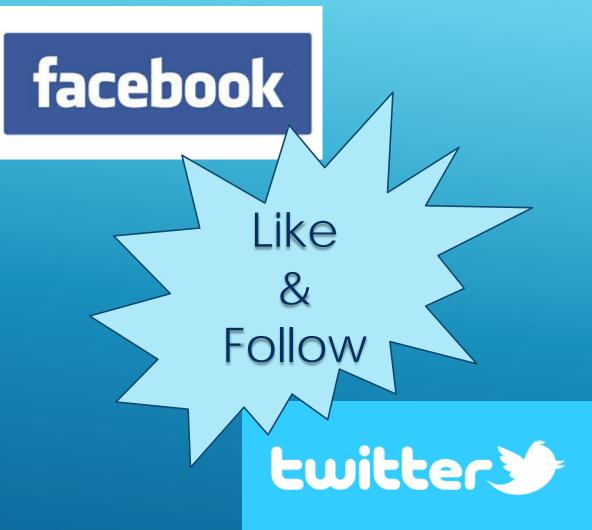














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NJDOT DIRECTOR'S MEETING







NJDOT'S TECHNOLOGY TRANSFER WEBSITE



njdottechtransfer.net



LUNCHTIME TECH TALKS!



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

SCOOP

The employee newsletter of Planning, Multimodal and Grant Administration

Issue 8

March 2018



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The State Transportation Innovation Council (STIC) National Network was born out of Federal Highway Administrations (FHWA) Every Day Counts program. The program helps state DOTs identify and rapidly deploy proven, yet understilling timovations obsorber project delivery, enhance safety, reduce congestion, and improve environmental sustainability. Each state's STIC is changed with establishing a processes can be evaluated and implemented quickly and processes can be evaluated and implemented quickly and professed;

New Jersey's STIC is sponsored by FHWA's Helene Roberts and is led by NIDOT's Assistant Commissioner of Hanning. Multimodal, and Grant Administration, Mike Russo. Management and coordination of NJ's STIC is boused 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 highquality 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 moring forward.



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 Stott

- 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.
- Recept 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 Passatc County.
 Road diets offer several high-value improvements at a low cost when applied to traditional fourlane undivided highways. Road Diets enhancesafety, 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 Birdge Systems (GBS-IBS) in New Jersey was on Jessup Mill Road Bridge over Edwards Run in Gloucester County. GBS-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 Pulasid Sicyanez, the Nation's largest accelerated bridge construction project. UHPC is a sizel 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/

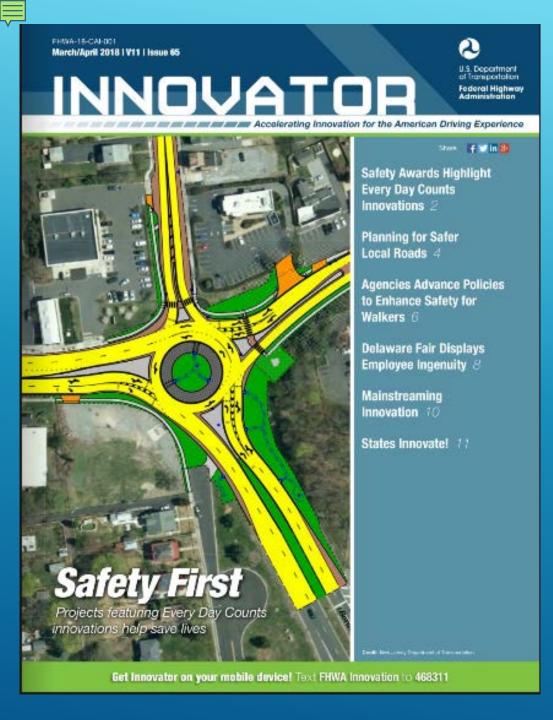
www.fhwa.dot.gov/everydaycounts www.fhwa.dot.gov/innovation/stic/

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





- 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?

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
- Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS)
- Data Driven Safety Analysis

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



Need more information?

Email DOT-Innovative.ldea@dot.ni.gov

Have a maintenance concern?

Does your idea or comment involve...

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



Click for link

Need other information?

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

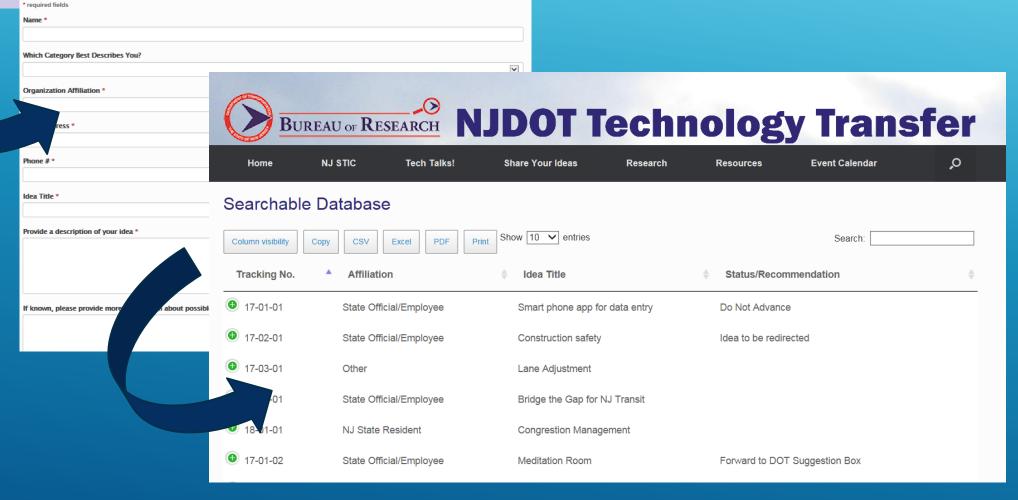


Click for link



5Innovative OF

ELECTRONIC
INTAKE, TRACKING, AND
STATUS REPORTING





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

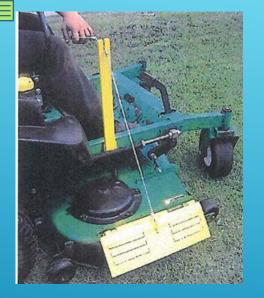
Employees of local or state public transportation agencies often find better ways to do their jobs.

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/carrier 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 <u>June 1st</u>, <u>2018</u>.
- 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)

https://cait.rutgers.edu/njltap/2017-build-bettermousetrap-competition











THANK YOU!