

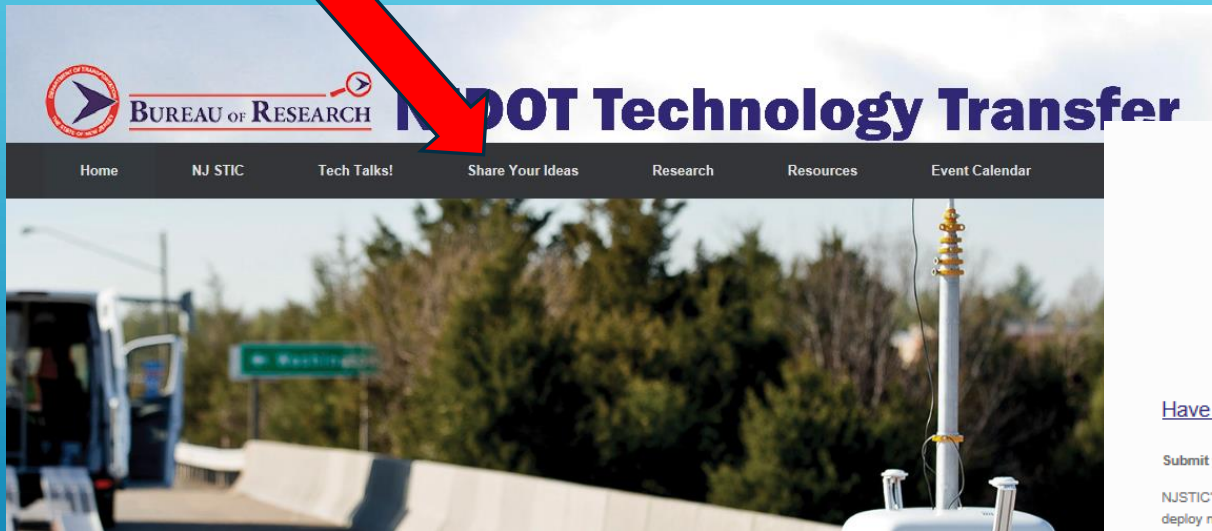
STIC COMMUNICATION & OUTREACH EFFORTS

- ▶ STIC Idea Intake & Tracking Processes –
SUCCESSFUL PRACTICES
- ▶ STIC Excellence Award Application
- ▶ Commissioner's Commitment to Communities Initiative
- ▶ Design Summit, May 2018
- ▶ “Build a Better Mousetrap Competition”
- ▶ Peer Exchanges (promoting safety innovations)




INNOVATIVE IDEA INTAKE

SUCCESSFUL
PRACTICE



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?](#)

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

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

[Have a maintenance concern?](#)

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




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



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 copy or more information about possible

BUREAU of RESEARCH NJDOT Technology Transfer			
Home	NJ STIC	Tech Talks!	Share Your Ideas
Research	Resources	Event Calendar	
Searchable Database			
Show 10 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

SUCCESSFUL
PRACTICE



STIC EXCELLENCE AWARD



- FHWA's Center of Accelerating Innovation & AASHTO Innovation Initiative partner together
 - Promote innovations
 - Recognize excellence within a STIC
- The STIC Excellence Award recognizes a STIC that
 - Made a significant impact toward fostering a strong culture for innovation

2016 Winners – Kentucky, Massachusetts, Vermont

2017 Winners – Wisconsin, Pennsylvania

2018 Winners – **NEW JERSEY????**



STIC EXCELLENCE AWARD

- Nomination Form + 2 additional pages of documentation
- **Endorsement from two STIC members**
- Approved by the STIC co-Chairs by their signature
- Color photograph that represents the STIC achievements.
- Due July 1st, 2018, forwarded to the award committee:
 - AASHTO Innovation Initiative
 - FHWA Center for Accelerating Innovation
 - AASHTO Executive Director
 - FHWA Administrator
- Award recipient announced at the AASHTO Annual Meeting
 - September 20-24, 2018
 - Atlanta, GA



Commissioner's Commitment to Communities Initiative

Design Summit 2018

BUILD A BETTER MOUSETRAP COMPETITION

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

Made a presentation at the monthly **Operations Management Meeting** in April and May.

Deadline to submit entries was June 1st, 2018.

Received FOUR (4) submissions

**THANK YOU
FOR ALL
SUBMITTED
ENTRIES!**



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: _____

BUILD A BETTER MOUSETRAP COMPETITION

1. James P Nunn - HIGHWAY OPERATIONS – CENTRAL - TOMS RIVER MAINT. YARD

Entry Title: **The Roncovitz Post Pusher & Post Puller**

2. Richard Shaw - EQUIPMENT OPERATIONS – SOUTH – CHERRY HILL

Entry Title: **Extending the Life of Trucks and Equipment**

3. Edward Liu - EQUIPMENT OPERATIONS – SOUTH – CHERRY HILL

Entry Title: **Smart Contract with Blockchain Technology**

4. Donald Borer - EQUIPMENT OPERATIONS – NORTH – NETCONG

Entry Title: **Pintle Hook Fork Attachment**

Peer Exchanges (promoting safety innovations)



WHAT COMMUNICATION & OUTREACH EFFORTS HAVE YOU MADE?

HOW CAN WE HELP YOU SPREAD THE WORD?

NEW IDEA DISPOSITION REPORT



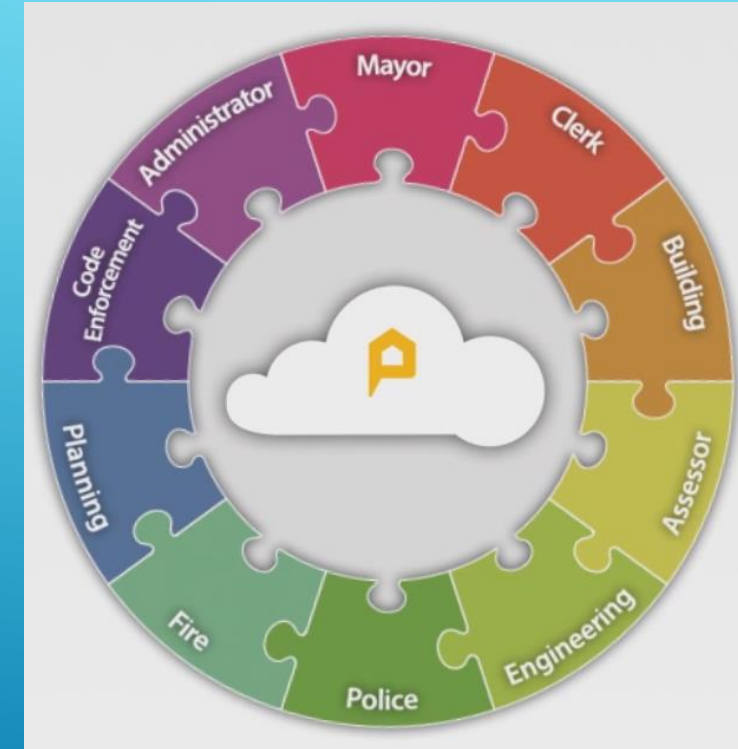
2nd Quarter 2018 (April-June)

Two ideas were received

1. Real-time App for Reporting Road Safety Concerns – *Submitted by NJDOT Employee, Viktoriya Usachenok*
2. No More Potholes – Use of a Rubber Belt instead of Steel Roller – *Submitted by Member of the Public, Tony Dominguez*

1. Real-time App for Reporting Road Safety Concerns

1. NJDOT develops its own app using the model that is being proposed by GovPilot;
2. Explore the option of using GovPilot services;
3. And/or for NJDOT to integrate with Waze and customize parameters used for submitting and filtering requests.



<https://www.govpilot.com/>

Prescreening Recommendation: Forward to Sal Cowan to determine if it is worthwhile, resources available

2. No More Potholes – Use of a Rubber Belt instead of Steel Roller

Conventional steel drum rollers cause cracks in pavements during compaction. This phenomenon is called “roller checking” and is caused by the incompatibility of the hard, round steel drum and the soft, flat asphalt pavement. Even rubber tired rollers do not close construction cracks, because the asphalt layer is too cool (for compaction) by the time the rubber-tired roller begins its passes.



The *Asphalt Multi-Integrated Roller*, AMIR was designed in 1989 Canada., replaces the conventional cylinder shape with a flat plate and provides a flexible material at the asphalt/compactor interface. The AMIR compactor consists of at least two larger drums with a special thick rubber belt integrating both drums into one flat surface.

1. Provides a crack free asphalt pavement.
2. The applied pressure under the AMIR compactor is about 10% to that applied by the steel roller.
3. Better uniformity and comparable densities at lower number of passes.



<https://carleton.ca/caart/research/amirhi/pac-asphalt-compaction-devices/>

Prescreening Recommendation: Need more info, Research will perform a lit search

ROUNDTABLE DISCUSSION



1 TO 2 MINUTES EACH

REMINDERS!



STIC Fall Meeting – September 25, 2018 at 10am in the
NJDOT Multi-Purpose Room

Fall STIC Meeting: Feature Presentation by Safety CIA Team
Feature Topic – Road Diets

Potential Additional Topics –
CAV Strategic Initiative being developed by NJIT
ITS America – Detroit – AASHTO panel on CAV



THANK YOU!