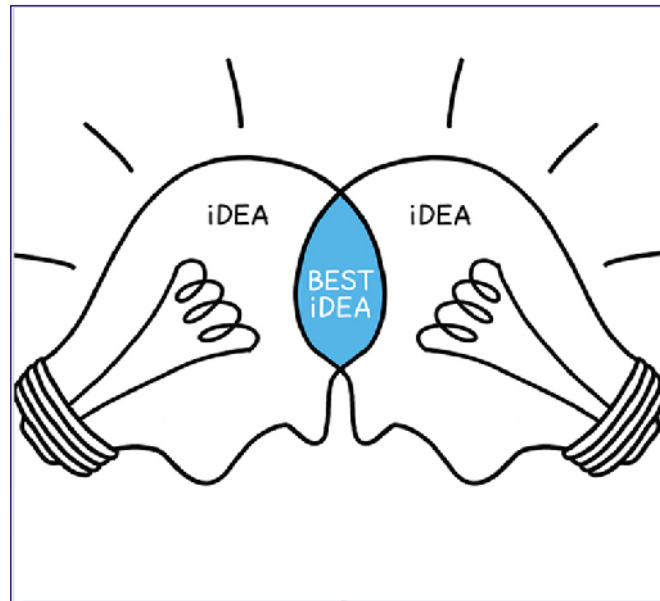


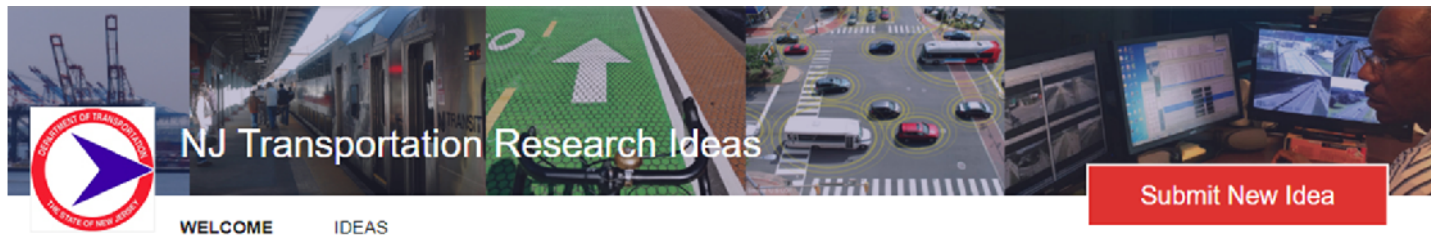


A website to gather and share research ideas



NJDOT Technology Transfer





What is our goal?

Finding workable solutions to problems that affect the safety, mobility and accessibility of New Jersey's residents, workers, visitors and businesses.

Steady improvement in the quality and cost effectiveness of the policies, practices, standards and specifications used in planning, building and maintaining New Jersey's transportation infrastructure

What are we looking for?

Research ideas from our research customers, research institutions and other practitioners that address critical existing and emerging transportation needs in New Jersey.

We want ideas that can turn problems into solutions that can be implemented.

Who do we work with?

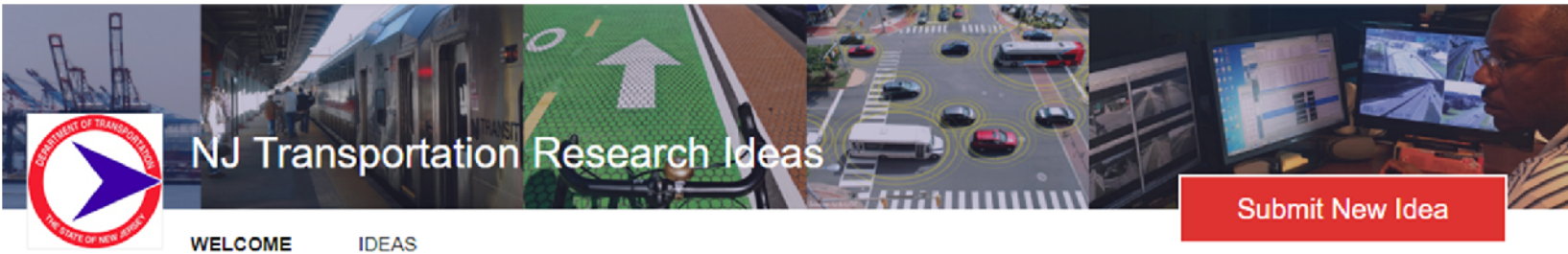
University and other research professionals

Where are research ideas shared?

<https://njdottechtransfer.ideascale.com/>

NJDOT Technology Transfer





Research Idea Submitted

Research Oversight Committee

Research Needs Statement

Request for Proposals

DESIGN AND CONSTRUCTION
Submitted by Matthew Randall (g556461) on 7/20/2018 2:17:11 comment

Benchmarking Bridge Deck Deterioration with Advanced Infrastructure Materials

Deterioration of bridge decks and other components results in costly maintenance presentation, increased traffic, and reduced service life. Federal, state, and local transportation agencies have increasingly been employing advanced infrastructure materials, such as MMTX reinforcing steel, ultra-high performance concrete (UHPC), and stainless steel reinforcement, among others, to improve the long-term durability of bridge. [more »](#)

10 votes

[Moderate idea]

idea Submitted by: Matthew J. Randall and Matthew P. Adams
I am your Agency (Division, Bureau, County, City, Unit, or Other): New Jersey Department of Transportation
What is the RFP ID, NJ Transit or NJ State (Contract) ID number? (optional)
Why is this important and what are the benefits for the State/County/City?
Planning for the construction of the next generation of bridges and the preservation of current infrastructure is a key strategic responsibility of the transportation of emerging infrastructure made as a long-term goal. This project is currently used in practice. This project will help NJDOT and local transportation agencies understand both a major materials problem in New Jersey's harsh environmental and service loading conditions. Further, the project will establish life cycle costs associated with the use of a range of emerging materials for capital allocation strategies.



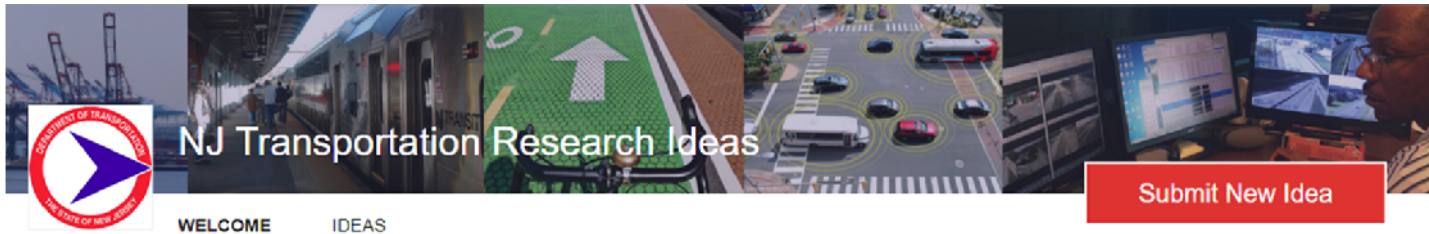
Title
Problem Statement
Literature Search
Research Objective
Implementation
Prospects
Research Significance
Project Duration
Cost Estimate...

New Jersey Department of Transportation
Bureau of Research
RESEARCH PROJECT
Request for Proposal
2018-19 Program

Project Title: **Advanced Reinforced Concrete Materials for Transportation Infrastructures**
Posting No.: 2018-07
Date of RFP Announcement: 8/3/2018
Closing Date: 9/12/2018

NJDOT Technology Transfer





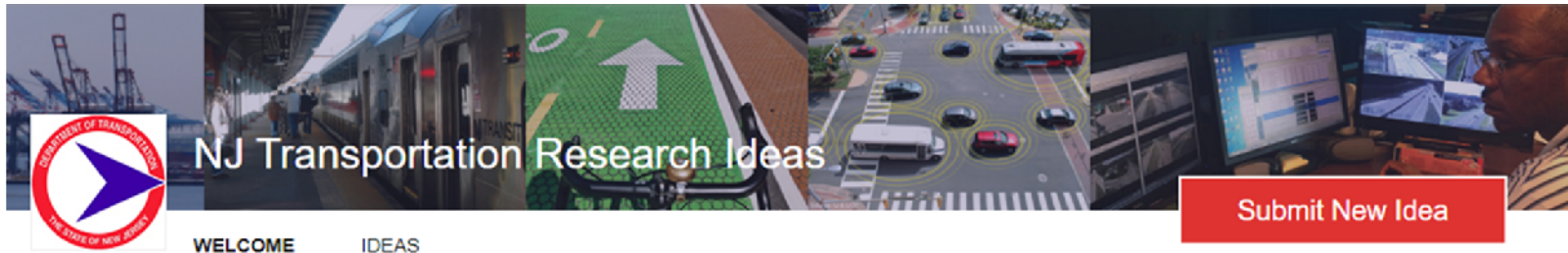
What happened to ideas submitted in 2017?

Where are research ideas shared?

<https://njdottechtransfer.ideascale.com/>

NJDOT Technology Transfer





NJ Transportation Research Ideas

WELCOME IDEAS

Submit New Idea

DESIGN AND CONSTRUCTION
Submitted by You in Sep 2017 | 1 comment

Smart Roadway Energy Harvesting

The Piezoelectric Electric Generator utilizes the phenomena that electricity is generated when crystal is under pressure. The application of this technology is widely used in our daily life, from the rubber tube that DOT uses to count vehicles on the roads, to the cigarette lighters that utilize piezo ignition to give us fire. By embedding a series of Piezoelectric Electric Generators under the pavement, piezoelectric ...[more »](#)

Idea Submitted by : Edward Liu

List your Agency /Division / Bureau, County, City Univ. or Other : NJDOT / Bureau of Traffic Engineering

Idea Champion - Who at NJDOT, NJ Transit or NJ Motor Vehicle? (if known) : Chris Barretts, Division of Highway and Traffic Design, Bureau of Traffic Engineering

Why is this a priority and what are the benefits for the State/County/City? :

Energy harvested from this technology is stored in the electronic capacitors of the storage system. The accumulated energy can be used to power traffic lights, street lamps or even routed into the grid. It could also assist with real-time information about congestion and traffic counts.



9
votes



IDEATE

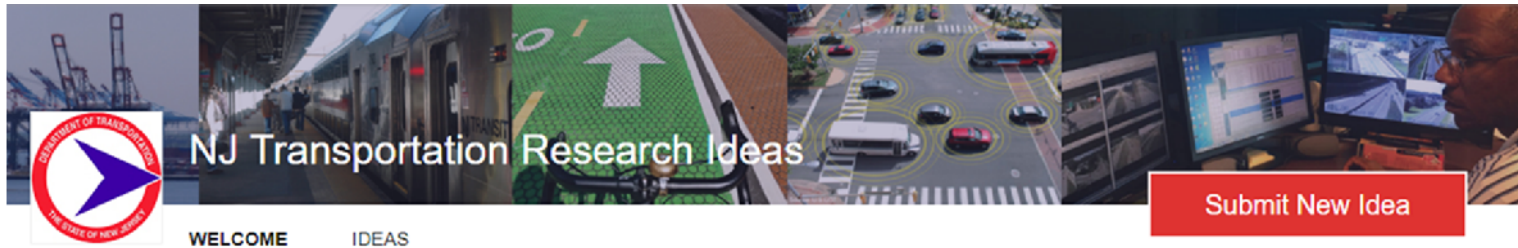
[Moderate Idea]

Ideas Need

- Title
- Description
- “Champion” to see idea through the research process
- Why is this a priority?
- What are the benefits?

NJDOT Technology Transfer





Campaigns

All Ideas



Design and Construction



Operations & Preservation



Planning & Environment



Policy and Organization



Traffic & Safety



Multi-Modal System Compo...

Which “Campaign” does your idea fit in?

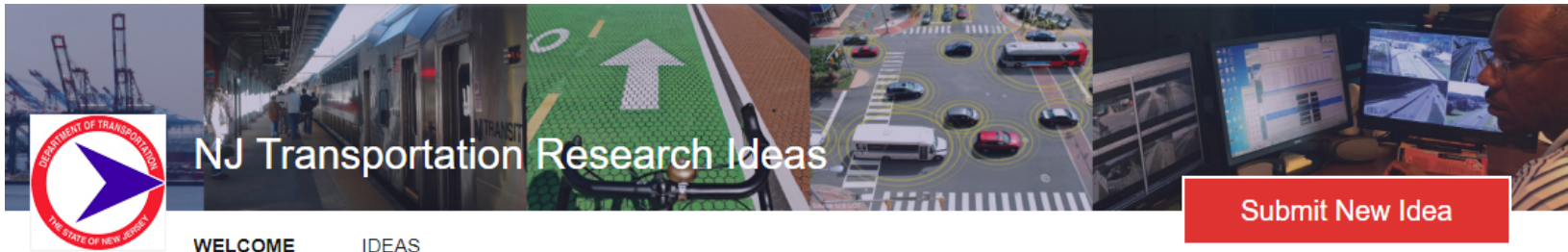
- Community members can see the research categories for which NJDOT is seeking ideas.

Who else is interested in this topic?

- Develop Communities of Practice
- Collaborate with peers interested in similar ideas

NJDOT Technology Transfer





Create Your Account (Already have an account? [Log In](#))

*Required fields

Email Address *

Language *
English

Professional Title *

Agency/Organization or Professional Affiliation *

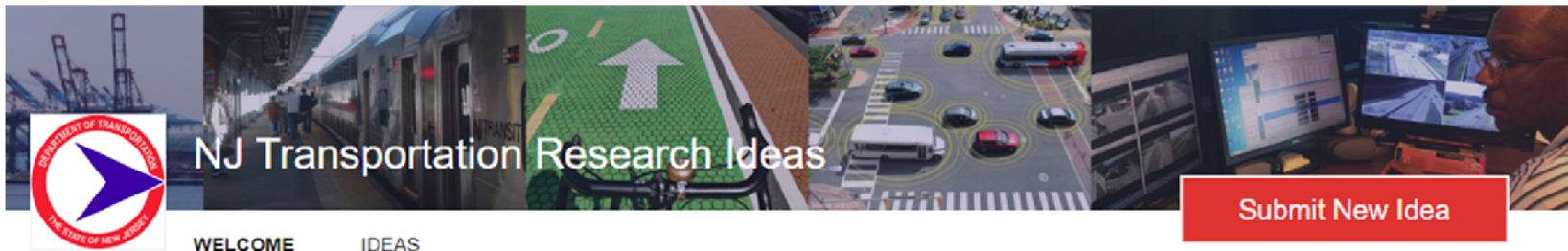
Hide my identity (Submit anonymously) OFF

Send me news and updates about IdeaScale OFF

[Register](#)

TRUSTe
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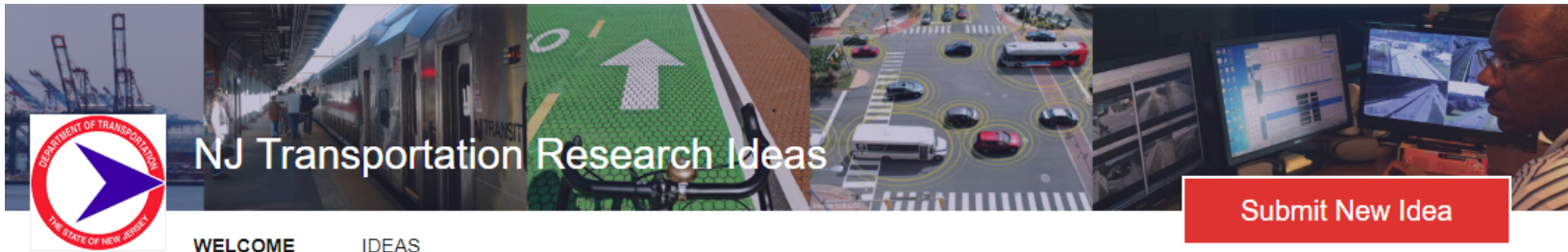
- 1. Register to Participate.** NJDOT’s research customers and other interested transportation practitioners (e.g., MPOs, county and local governments, and other transportation subject matter experts from trade, universities and NGOs) can register to participate.
- 2. Submit Research Ideas.** Registered participants log in to submit a new idea. You may submit ideas at any time.
- 3. Comment and Vote.** Give feedback on other research ideas and vote to show support.
- 4. Check back to see what’s new.**



When is the deadline for the next research round?

- The deadline for new research ideas to inform the next round of research RFPs is **December 31, 2018**.
- The Research Oversight Committee will prioritize ideas after this date.
- High priority research needs will be posted as RFPs on the Bureau of Research website.
- We will continue to collect research ideas. Submit a new idea anytime!

[Submit New Idea](#)



1. **Where Do I Register?** <https://njdottechtransfer.ideascale.com>

2. **Who Can Register to Participate?** NJDOT's research customers and other interested transportation practitioners (e.g., MPOs, county and local governments, and other transportation subject matter experts from trade, universities and NGOs) can register to participate.

3. **Questions about How to Register?**

Please email our site administrator: ideas@njdottechtransfer.net

Create Your Account (Already have an account? [Log In](#))

*Required fields

Email Address *

Language *

Professional Title *

Agency/Organization or Professional Affiliation *

Hide my identity (Submit anonymously) OFF

Send me news and updates about IdeaScale OFF

Register

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