

CIA TEAM

MOBILITY & OPS

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EDC5 Initiatives Assigned:

Weather-Responsive Management Strategies

Goals:

- Maximize the use of mobile road weather data to support NJDOT in implementing traffic and maintenance operations strategies during inclement weather.
- Improve safety, mobility, and minimize environmental impacts of weather on the transportation system.



Initiatives:

- FHWA Accelerated Innovation Deployment (AID) grant (\$322,462): NJDOT was awarded the AID grant (\$322,462) to install video camera dashboards and sensors onto NJDOT maintenance trucks and safety service patrol vehicles to collect streaming video and weather / pavement information to support road weather management throughout the state. We (Sue Catlett) are currently in the process of putting together the federal authorization package (i.e. project implementation schedule with cost breakdown) for submission to FHWA for funding.
- On Wednesday, April 24th, NJDOT participated in FHWA's Road Weather Management Capability Maturity Framework program. With help from the NJ Division Office and FHWA DC Headquarters Roemer Alfelor (Transportation Specialist for Road Weather Management), nearly 40 DOT employees and our weather vendor DTN discussed our current weather management strategies.

EDC5 Initiatives Assigned:

Unmanned Aerial Systems (UAS)

Goals:

- Utilize UAS to enhance data collection for structural/ construction inspections and emergency response while saving time and money for taxpayers.

Initiatives:

NJDOT State Transportation Innovation Council (STIC) Incentive Funding Grant Application:

The Multi-Modal Bureau of Aeronautics have put together a proposal for STIC Incentive Funding (\$43,104; note: total cost will change to increase the scope of the activity).

- Funding to procure thermal equipment for bridge deck inspections and counting bats under the bridge to comply with NJDEP regulations regarding potential wildlife under bridges.
- Funding is also provided for training courses related to Infrared Thermography, 3D Modeling, Drone Photography, and drone videography to help provide extended knowledge and experience for specialized situations to support other NJDOT divisions.



EDC5 Initiatives Assigned:

Use of Crowdsourcing to Advance Operations

Goals:

- Expands and improves real-time monitoring
- Enables more targeted and timely response
- Enables strategic / programmatic operational improvements

Initiatives:

Status of using crowdsource operations data in New Jersey:

- NJDOT is not participating in the use of crowdsourcing to advance traffic operations. We're institutionalized.
- Waze has been sharing traffic and incident report data with NJDOT by way of TRANSCOM. NJDOT TOC operators are using it for their incident detection and situational awareness when monitoring and verifying traffic conditions.
- On Tuesday, April 30th, Leadership from NJDOT met with the NJ Partnership Coordinators from Waze to discuss their "Waze Beacon" product (a GPS product that improves GPS accuracy within tunnels). This could possibly be a STIC incentive funding initiative for 2019. We are also exploring the option of having NJDOT sign up as a Connected Citizens Program, independent of our existing arrangement with Transcom.

