

Your Local Technology Transfer Newsletter





# Issue Highlights

## Renewable Roadsides

Increasingly, State transportation agencies are exploring solar power technologies to reduce electricity costs and promote energy security. Are these improvements cost effective? How easily can they be implemented by State DOTs? Learn more here.



## U.S. Transportation Secretary Elaine L. Chao Announces Availability of \$900 Million in Infrastructure Grant Funds

NJDOT announces its first ever Accelerated Innovation Deployment (AID) Award from FHWA, giving the state powerful backing to finance a new pilot program.



## Tips for Bicyclists and Pedestrians

It's vital for bicyclists and pedestrians to understand large trucks and buses and be proactive in staying safe. Remember these tips when your paths cross with vehicles users.



## National Public Works Week

Learn more about the history of National Public Works Week and how you and your community can get involved in raising awareness!



The Local Technical Assistance Program (LTAP) and Tribal Technical Assistance Program (TTAP) are composed of a network of 58 Centers – one in every state, Puerto Rico and regional Centers serving tribal governments. The LTAP/TTAP Centers enable local counties, parishes, townships, cities and towns to improve their roads and bridges by supplying them with a variety of training programs, an information clearinghouse,

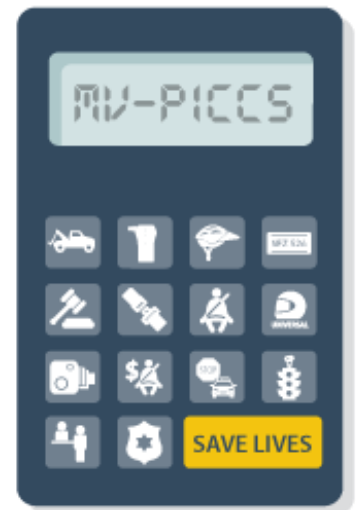
## Motor Vehicle Prioritizing Interventions and Cost Calculator for States (MV PICCS)

CDC offers a newly redesigned interactive calculator called [MV PICCS 3.0](#) (Motor Vehicle Prioritizing Interventions and Cost Calculator for States), pronounced MV “picks”. This tool, which now includes 2015 state data and a graphical interface, can help state decision makers prioritize and select from a suite of 14 effective motor vehicle injury prevention interventions. MV PICCS 3.0 calculates the expected number and monetized value of injuries prevented, lives saved, and the costs of implementation, while taking into account available resources. The updated tool includes easy access to [intervention fact sheets](#) and a completely new user-friendly interface. Another new feature is the ability to save or print sharable reports with MV PICCS results.

The widget provides states with a quick overview of evidence-based interventions proven to work and a summary of the strategies that are currently being used in each state as well as the ones that could be implemented. It also provides state-specific information about each intervention such as:

- number of injuries that could be prevented
- number of lives that could be saved
- monetary benefit of implementation
- cost to implement

Use the online calculator today at <https://www.cdc.gov/motorvehiclesafety/calculator/>



## New Jersey STIC Innovative Initiatives Survey

The New Jersey Department of Transportation would like to identify examples of successful implementation of Every Day Counts (EDC) initiatives and other innovative practices in New Jersey. We are interested in your insights and experience related to the needs for innovation and the challenges of advancing implementation of innovative practices.

Our survey seeks to learn from knowledgeable representatives from Local Public Agencies, Industry and Trade Associations, and Metropolitan Planning Organizations (MPOs).

Your participation in this survey is completely voluntary; however, your opinions are highly valued. This online survey will take approximately 10-15 minutes to complete. To foster knowledge sharing, we will present the results of this survey at a future convening of the New Jersey State Transportation Innovation Council (STIC) and highlight best practices at other events and in communications. Please submit your answers by May 22, 2019.

To learn more about the survey and participate, please click on the following link:

[New Jersey STIC Innovative Initiatives](#)

To learn more about the STIC National Network, and to submit ideas, please visit [njdottechtransfer.net/nj-stic](http://njdottechtransfer.net/nj-stic)



## Tips for Traveling Safely in Work Zones

On average, over 700 fatalities occur in work zones each year. Commercial motor vehicle (CMV) and passenger vehicle drivers both need to be particularly careful while traveling through work zones. Trucks and buses have limited maneuverability and large blind spots, both of which make operating in these areas more challenging for them. In fact, large trucks are disproportionately involved in work zone crashes.



Before setting out on the road, research your route. When possible, avoid work zones and use any detours that are available.

You should always keep your eyes on the road, but this is exceptionally important in work zones. Be aware of all signage throughout work zones that can indicate reduced speeds, lane changes and other important information. Avoid distractions such as your cellphone, eating, drinking, the radio, GPS and conversing with other passengers.



Lane closures, traffic pattern shifts and reduced speeds are common in work zones. Make sure to slow down when entering a work zone and keep an eye out for road workers.





Lane closures, traffic pattern shifts and reduced speeds are common in work zones. Make sure to slow down when entering a work zone and keep an eye out for road workers.

Rear-end crashes are extremely common in work zones – maintain extra space between your vehicle and the one in front of you at all times.



Stay alert and be on the lookout for upcoming work zones. As you approach one, slow down and pay attention to signs guiding traffic. Reduced speeds and sudden stops are common, be prepared to stop unexpectedly. Note that fines for speeding in work zones are often doubled.

# Renewable Roadsides

State highway departments have many responsibilities, from fostering roadway safety to plowing and mowing roadsides to implementing major repair and replacement projects. Often overlooked is the fact that these agencies require significant electricity to power their operations.

After considering costs and benefits, some State departments of transportation have chosen to meet a portion of their electricity needs by installing solar energy projects in highway rights-of-way (ROW) and at other State DOT facilities. Some agencies are finding that pursuing renewable energy generation not only benefits the environment but can also save money on energy costs.

The price of solar photovoltaic systems dropped more than 60 percent between 2010 and 2017. In many cases, solar power is cost-competitive or even cheaper than fossil fuel sources of electricity. Twenty-nine percent of all new electricity-generating capacity came from solar installations in 2017, second only to natural gas (46 percent), and slightly ahead of wind (22 percent). As renewable energy technologies have matured, the business models serving public entities have expanded as well. Many State and local government agencies are able to work with private-sector partners to install renewable energy at no upfront cost to them and save money on their electricity use. Concurrently, the Federal Highway Administration supports highway renewable energy through developing resources and funding workshops where agencies can learn about efforts to implement renewable energy projects.

## Benefits to State DOTs

As interest in renewable energy projects increases, staff at State transportation departments across the country are championing these efforts. They are navigating the complicated world of electricity production and regulation, and ensuring that these renewable energy projects meet their departments' missions and requirements.

State DOTs have recognized many potential benefits of implementing solar energy projects.

- *Identifying secondary purposes for ROW.* In many cases, the highway ROW owned by State DOTs is close to electrical loads, free from development, and already disturbed, making it an attractive location for solar power.



The Massachusetts Department of Transportation installed these solar panels in the right-of-way at Exit 13 North on the Massachusetts Turnpike (I-90) in Framingham. The State DOT has installed several solar projects at multiple sites.

- *Saving money on electricity costs.* Installing solar power can help State DOTs offset their electricity costs. The electricity produced can directly power department assets and facilities, such as roadside lighting or maintenance buildings.
- *Producing clean energy and promoting energy security.* Compared to burning fossil fuels, obtaining electricity from solar or wind reduces harmful pollutants such as mercury, nitrous oxides, and heat-trapping carbon dioxide. Solar energy also helps DOTs meet State environmental goals and requirements, and promotes energy security by diversifying energy generation and delivery methods.
- *Fostering green jobs.* Highway solar projects help promote the local green job market and the Nation's growing clean energy economy. Nationwide, the solar workforce increased from about 93,000 jobs in 2010 to more than 250,000 jobs in 2017.

## Supporting State Efforts

FHWA offers several resources intended to help State DOTs develop renewable energy projects. Resources are available at [www.fhwa.dot.gov/real\\_estate/right-of-way/corridor\\_management/alternative\\_uses.cfm](http://www.fhwa.dot.gov/real_estate/right-of-way/corridor_management/alternative_uses.cfm).

Read more about individual State DOT experiences at [FHWA Public Roads Magazine!](#)

## Plowing Intersections and Interchanges: Training Materials

Clear Roads researchers gathered information about plowing 10 different types of intersections and interchanges and identified best practices. They then developed a complete set of training materials, including a video (with clearing animations), a manual, and reference cards.

Survey respondents from 21 states evaluated and commented on proposed plow paths, techniques, and equipment for clearing snow from 10 road layouts:

1. Roundabout intersection
2. Four-leg intersection
3. Displaced left-turn intersection
4. Median U-turn intersection
5. Double roundabout interchange
6. Diamond interchange
7. Cloverleaf interchange with C/D lanes
8. Single-point interchange
9. Diverging diamond interchange
10. Directional T interchange



The primary training tool researchers created is a 66-minute video with a chapter menu directing to each geometry type. The video sequences include detailed animated sequences for each configuration, showing plow trucks following specific plow paths to clear the roads.

For video with training tips and strategies, visit the [Clear Roads YouTube Channel](#)

## TRB Webinar: Guide to Snow and Ice Performance Measures: Key Findings & Recommendations

TRB will conduct a webinar on Wednesday, May 15, 2019, from 2:00 PM to 3:30 PM ET that features research from the National Cooperative Highway Research Program (NCHRP)'s Research Report 889: Performance Measures in Snow and Ice Control Operations. This webinar will provide context to the guide and describe the set of performance measures that have been identified. Presenters will include updates from state departments of education on their use of snow and ice performance measurements and how they plan to incorporate findings from the guide. Some registrants will need to pay \$95 to attend this webinar. Sign into MyTRB.org to view registration information.

### Webinar Presenters

Deepak Gopalakrishna, ICF

Jeremy Schroeder, Athey Creek Consultants

Moderated by: Deepak Gopalakrishna, ICF

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MEDICINE

### Professional Development Hour Information

A certificate for 1.5 Professional Development Hours (PDHs) will be provided to Professional Engineers (PEs) who register and attend the webinar as an individual. For approved webinars, TRB's webinar program awards Registered Continuing Education Provider (RCEP) Professional Development Hour (PDH) credits associated with participation only to the registered individual and not to other members of a group that view the webinar together. To receive PDH credits, please register as an individual and sign into the webinar from your personal computer. After doing this, you may join your group in a meeting room. To be eligible for the credits, individuals must remain signed in for the entire webinar, including for any question and answer session following the presentations.



## U.S. Transportation Secretary Elaine L. Chao Announces Availability of \$900 Million in Infrastructure Grant Funds

The U.S. Department of Transportation (DOT) has formally announced a Notice of Funding Opportunity (NOFO) to apply for \$900 million in discretionary grant funding through the Better Utilizing Investments to Leverage Development (BUILD) Transportation Discretionary Grants program.

“These BUILD Transportation grants will provide needed infrastructure investment to better connect rural and urban communities around our nation,” said U.S. Secretary of Transportation Elaine L. Chao.

Fiscal Year 2019 BUILD Transportation grants are for investments in surface transportation infrastructure and will be awarded on a competitive basis to projects that will have a significant local or regional impact. BUILD funding can support roads, bridges, transit, rail, ports or intermodal transportation.

To reflect the Administration’s ongoing effort to rebalance past under-investment in rural America, DOT intends to award up to 50% of BUILD Transportation grant funding to projects located in rural areas that align well with the selection criteria. The FY 2019 BUILD program’s selection criteria gives special consideration to projects that emphasize improved access to reliable, safe, and affordable transportation for communities in rural areas. This includes projects that improve infrastructure condition, address public health and safety, promote regional connectivity, facilitate economic growth or competitiveness, deploy broadband as part of an eligible transportation project, or promote energy independence.

Selection criteria encompass safety, economic competitiveness, quality of life, state of good repair, innovation and partnerships with a broad range of stakeholders.

The Consolidated Appropriations Act of 2019 made available \$900 million for National Infrastructure



Investments, otherwise known as BUILD grants. For this round of BUILD grants, the maximum grant award is \$25 million, and no more than \$90 million can be awarded to a single State.

To provide technical assistance to a broad array of stakeholders, DOT is hosting a series of webinars during the FY 2019 BUILD grant application process. Details and registration information regarding these webinars will be made available at <https://www.transportation.gov/BUILDgrants/outreach>.

The deadline to submit an application for the FY 2019 BUILD Transportation Discretionary Grants program is July 15, 2019.

To view the NOFO, click here. For more information, please visit <https://www.transportation.gov/BUILDgrants>.

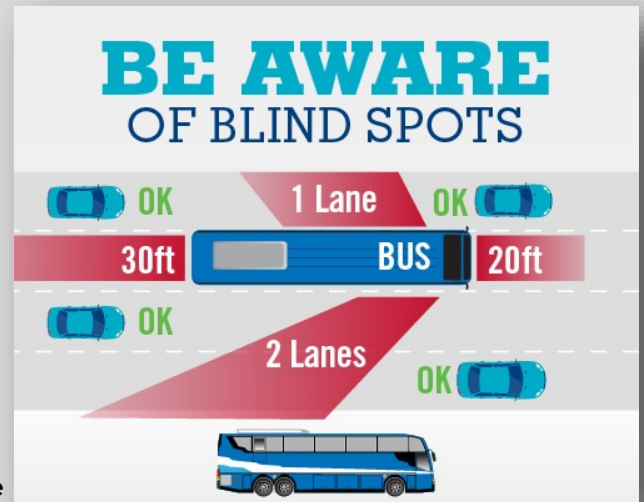




## Tips for Bicyclists and Pedestrians

Bicyclists and pedestrians present even more safety challenges on the road for all drivers: they lack protection in a crash, are slower than motor vehicles, and hard for drivers to see – particularly truck and bus drivers. It's vital for bicyclists and pedestrians to understand large trucks and buses and be proactive in staying safe. Remember these tips when your paths cross with vehicles users.

- **Stay out of Blind Spots** - Never walk or ride too close to a large truck or bus. Large vehicles have huge blind spots around all four sides, making it difficult for drivers to see pedestrians and bicyclists. If you can't see the driver in the vehicle mirrors, the driver can't see you. Always assume the driver does not see you and take extra care. Never walk or ride behind a truck or bus that is backing up; drivers often cannot see directly behind their vehicle.
- **Respect Long Stopping Distances** - Trucks traveling 65MPH will take up to two football fields to stop; Big blind spots and long stopping distances can be a deadly combination. Never cross in front of a moving truck or cut in too close after passing a truck or bus on a bike.
- **Make Yourself Visible** - Bright clothing is easier to see in the daytime. At night or during bad weather, wear reflective clothing, use reflectors and lights on your bike, and carry a flashlight and/or wear a headlight while walking.
- **Obey Traffic Laws, Signals and Signs** - Bicyclists must stop at red lights and stop signs and should ride with the flow of traffic. Pedestrians should obey signals and cross at intersections and crosswalks. Never assume that because you have the right of way, drivers (particularly truck and bus drivers) will see you and yield for you.
- **Stay Alert and Undistracted** - Listening to music leaves a rider or pedestrian unable to hear sirens, horns and other warnings. Earbuds plus cellphones can lead pedestrians to walk into other people – or traffic – putting themselves and others at risk. Stop walking while using your device, then put it away and pay attention to safety while in motion.
- **Don't Ride or Walk Impaired** - Alcohol decreases motor skills and judgment whether you're driving, on a bike or walking. If you've been drinking, get a safe ride or take public transportation. Alcohol use is a major factor in pedestrian fatalities. The National Highway Traffic Safety Administration (NHTSA) found that in 2013, 34% of all pedestrians killed in vehicle crashes had a blood alcohol content of .08 or higher.
- **Wear Your Helmet** - Always wear a well-fitting, properly adjusted helmet when riding – riding into a truck or bus is equivalent to hitting a steel wall.
- **Watch Your Walkways** - Walk on sidewalks and in crosswalks whenever possible. Pay attention to walk signals. Never stand in the street while waiting to cross. Keep a safe distance back on corners as turning trucks and buses occasionally run up onto sidewalk corners.
- **Be Extra Alert in Parking Lots, Filling Stations and Rest Stops** - Locations where trucks must back up and navigate tight spaces can be particularly dangerous. Stay out of the way (and out of blind spots).



## Jacobs' Junction

**Question:** I know that federal regulations stipulate that all steel or iron on a project has to be domestically sourced and manufactured on a federal-aid project. But what if I do not use federal funds to purchase that product? Can it be used in the construction of a project?

**Lloyd Jacobs:** Thanks for your question; as per federal requirements, the Buy America policies stipulate that even if a product is not purchased with federal funds, no foreign based iron or steel can be permanently installed on a project. The key word here of course, is permanently. Things like sheet pilings and drill shaft linings are **not** subject to Buy America requirements if they are not permanently installed on the project. So in reality, this is two questions; even if a foreign product is purchased with non-federal funds, it is not allowed on a federal-aid project. But if the iron or steel is used to aid construction, and not part of the permanent installation of a project, then it is exempt from Buy America requirements anyway.

**Question:** What steps can I take to ensure my change orders are approved and I can avoid liquidated damages for going over the specified contract time? What kind of records do I need to keep on hand to use as justification?

**Lloyd Jacobs:** Anything and everything you can. The best documentation to have is keeping accurate records that show the time, labor, equipment, and materials used. Evaluations of the construction schedule modifications needed, and the cost estimates prepared by the agency that can be compared to the costs in the proposed change order. Remember, when submitting a change order you need to ask yourself a few questions first. Is this change necessary? How much will it affect the original scope or work? Who is responsible for the additional costs or delays? If it is determined to be something within your control, it will be less likely to be approved, regardless of your records.

Any project is potentially subject to a change order; keeping accurate records and staying in touch with your oversight agency for approval will help mitigate the costs of unforeseen issues in construction.

Lloyd Jacobs is a professional engineer working for NJLTAP, having previously served FHWA in various positions.

Do you have a question for Lloyd? E-mail [newjerseyLTAP@gmail.com](mailto:newjerseyLTAP@gmail.com) for answers!



## New Jersey's Build a Better Mousetrap Competition Now Open!

People involved in the transportation industry 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, it is typically the people on the front lines that often realize the latest and best practices.

Now is the time to share those new ideas with others in New Jersey's **Build a Better Mousetrap Competition**. We are looking for submissions from any employee of a local or state public agency (municipalities, counties, parks commissions, NJ Department of Transportation, NJ Transit) that has create an alternate or better way of doing something in a transportation project. We will gather the best ideas from around the state and judge them using a 5 point rating system. If you have something you think would qualify for this competition, submit your entry by July 1<sup>st</sup>. As a reminder, this competition is open to any local, county, or state transportation agency, including New Jersey Department of Transportation and New Jersey Transit employees. Two winners will be selected; one for the best local agency and another for the NJDOT/NJT Submission.

Visit <https://cait.rutgers.edu/mousetrap/> for more information and to download the entry form today!



**"Build a better mouse trap,  
and the world will beat a path  
towards your door."**

- Ralph Waldo Emerson



## National Public Works Week



Every year National Public Works Week gets bigger and better. The number of participating municipalities continues to grow, which means the number of citizens who are exposed to the value of public works grows. At APWA one of our main goals is to educate the general public about the value and necessities of public works projects throughout North America, and public works professionals like you are our best ambassadors.

Since 1960, APWA has sponsored National Public Works Week. Across North America, our more than 30,000 members in the U.S. and Canada use this week to energize and educate the public on the importance of public works to their daily lives: planning, building, managing and operating at the heart of their local communities to improve everyday quality of life.

APWA encourages public works agencies and professionals to take the opportunity to make their stories known in their communities. The National Public Works Week How-To Guide and Downloadables area are available to agencies to assist in the development and implementation of their own individual celebrations. The occasion is marked each year with scores of resolutions and proclamations from mayors and governors, as well.

### How to get involved

There are many opportunities for states and municipalities to raise awareness for National Public Works Week. Below is a handy list of things you can do right in your community to get citizens engaged and involved with their public works professionals.

- **Environmental Campaign-** Develop a week of activities to improve the community's environment. Show the many ways public works departments contribute to your community's environmental health. Invite garden clubs, civic groups, historic preservation societies, schools and scouting councils to join you in an environmental project, or suggest a project of their own. Organize a tree-planting ceremony, recycling drive, public grounds clean-up or free, safe disposal of oversized items and household hazardous wastes. Launch a campaign to solicit organizations to adopt a highway or public park.

- **Public Works Exhibit** - Create an exhibit to spotlight your organization's recent successes and emphasize how they benefit all citizens. Arrange to display your exhibit at libraries, community centers and shopping malls. You may be able to take advantage of a captive audience by exhibiting at a scheduled community event. Feature public works equipment and provide information on upcoming public works projects. When practical, have a department staff member at the exhibit to answer questions and provide information.
- **Rodeo/Equipment Show** - Display equipment your department uses in day-to-day operations. Give public works employees the opportunity to show the skill required to operate public works equipment. Select a location with high visibility such as a parking lot, city park, or public gathering place. Allow adequate time to research and reserve a location. Invite elected officials to participate in an activity during the event. Sponsor a regional contest and challenge other municipalities to a test of skills necessary to operate a backhoe, garbage pickup, forklift and lawn tractor. Emphasize safety; highlight the cost-effective measures and unique features of your equipment and vehicles.
- **Open House or Tour** - An open house or tour offers participants a new perspective on public works and gives professionals an opportunity to discuss the daily operation at their facility. It also is a good time to gather community members' opinions of public works projects and services. Plan the open house in conjunction with a dedication ceremony, an anniversary, or a celebration of a completed project. Select employees to serve as ambassadors or tour guides. Provide a forum for citizens to learn about various departments and their functions. Develop a survey to gather attendees' opinions about a public works project or service of importance to your organization.
- **Employee Appreciation Day** - Acknowledge the many accomplishments public works employees contribute throughout the year with a special recognition event. Sponsor a banquet to recognize outstanding performance, special achievements, safety records and attendance. Include family members of honorees. Award honorees with a gift registration to a seminar, an engraved plaque, a special proclamation or a cash award. Invite elected officials. Hold your event in a public works facility. For example, host a barbecue in an equipment garage.
- **Outreach to Schools**
  - ⇒ **A T-Shirt Design Contest** encourages students to be creative while they learn about public works. It's an excellent activity for elementary school age students. Design subjects include parks and recreation, recycling, road repair and street cleaning. Print the winning design on T-shirts and distribute T-shirts to students and members of the organization to wear during National Public Works Week.
  - ⇒ Bringing an **Equipment Show and Tell** to a middle school enables students to see firsthand the equipment you use in daily operations. Recycling vans, refuse trucks, pavement recyclers, road graders and lift trucks hold fascinating possibilities for students this age. This activity is ideal if you have limited resources. You could schedule an Equipment Show and Tell at a different school every day of National Public Works Week.
  - ⇒ A **Job Shadow Day** enables a high school student to experience a workday in the life of the public works professional who performs a job of interest to the student. In the process, students learn that public works services employ a variety of professionals, technicians and administrators who have been schooled and trained in a variety of fields.



## Murphy Administration Announces Department of Transportation Municipal Aid Grants for 95 Percent of New Jersey Municipalities

Governor Phil Murphy, Lieutenant Governor Oliver, and DOT Commissioner Gutierrez-Scaccetti today announced that 95 percent of New Jersey municipalities will receive Municipal Aid grant awards, totaling \$161.25 million. A total of 537 cities and towns across the state are receiving grants to advance road, bridge, safety, and quality-of-life improvements in an effort to continue the Department of Transportation's Commitment to Communities' efforts. "Supporting New Jersey's communities through funding for infrastructure maintenance and renewal is a core component of good government, and stands at the top of this Administration's priorities," said Governor Murphy. "Alongside Commissioner Scaccetti, I'm proud to stand with our State's municipalities to help them deliver projects to their residents that improve their mobility and their quality of life."

"Working directly with municipalities to update the main lines of transportation that run through our towns and cities will have a positive daily impact on people," said Lieutenant Governor Sheila Oliver. "Residents want to see their Transportation Trust Fund dollars at work in their communities and this grant program will help to make infrastructure improvements become a reality statewide."

"The Murphy Administration maintains its commitment to communities by providing municipalities the resources to make important safety, infrastructure, and quality-of-life improvements without burdening local property taxpayers," said NJDOT Commissioner Diane Gutierrez-Scaccetti.

The competitive Municipal Aid grant program attracted 681 applications from 544 different municipalities with a total of \$377 million in work. Project applications are evaluated and rated on their merits by an independent panel of New Jersey municipal engineers with the support of NJDOT. This process resulted in 538 awards to 537 municipalities. The 2016 Transportation Trust Fund renewal has made it possible to continue to award more than double the dollar value for the second straight year (\$78.75 million to \$161.25) and increase the number of recipients.

Under the Municipal Aid grant program, each county is apportioned a share of the total funding based on population and the number of local centerline miles. Municipalities compete for portions of their county's share. NJDOT provides 75 percent of the grant amount when a town awards a contract and the remaining 25 percent upon completion of the project. Of the \$161.25 million awarded, there is \$10 million allotted for municipalities qualifying for Urban Aid under state law, with the amounts determined by the Department of Community Affairs.

"This is why I worked to make sure that the Transportation Trust Fund includes a significant amount of support for infrastructure work at the local level," said Senate President Steve Sweeney. "Local government identifying local issues, and state government helping to build solutions. It's encouraging to see our state take proactive steps in addressing our aging infrastructure, and I hope we can find even more state savings that can be used for transportation and infrastructure investments."

Applicants for Municipal Aid grants this year were submitted to NJDOT by October 2018 and have been judiciously reviewed. Within the Municipal Aid program there are seven project categories eligible for funding: Roadway Preservation, Roadway Safety, Quality of Life, Mobility, Bikeway, Pedestrian Safety, and Bridge Preservation. Past performance in connection with timely award of projects and project delivery were part of the evaluation of the proposals. When evaluating applications, NJDOT also verifies if the municipality has adopted Complete Streets policies. Complete Streets policies establishes guidelines that require consideration be given to pedestrians and bicyclists when local transportation projects are being planned, designed, and built.



### Publication Statement

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### Upcoming Events

**This spring we would like to remind you of some available courses in the LTAP catalogue. Whether you're a seasoned veteran or new to the job, LTAP's courses will provide you with the best instruction on what you need to know. Register today!**

#### **Engineering and Traffic Studies - May 20, 2019 8:30 a.m - 12:30 p.m.**

The course will examine methodologies for conducting speed studies, evaluating intersection controls, safety analyses and quantifying the effectiveness of safety treatments. Procedures and required traffic studies to legally establish, revise and remove traffic restrictions in New Jersey will also be presented. Participants also complete exercises in which they conduct common engineering and traffic studies using actual data.

#### **Compliance to the Americans with Disabilities Act (ADA) in the Public Right-of-Way - June 7, 2019 8:30 a.m. – 12:30 p.m.**

The session will provide an overview of state and local laws governing ADA compliance, responsibilities of facility owners and funding recipients, project requirements, and ADA standards and applications. In addition, the session will highlight the Public Right-of-Way Accessibility Guide (PROWAG).

#### **Traffic Incident Management Training for Emergency Responders - June 12, 2019 8:00 a.m. – 1:00 p.m.**

Three vehicle crashes involving injuries occur every minute in the United States, putting nearly 39,000 incident responders in harm's way daily. Using a multi-discipline approach, this course will train first responders in New Jersey will learn how to operate more efficiently and act collectively. The training covers topics including TIM guidelines, fundamentals, and terminology; notifications and scene size up; scene safety and risk management; traffic management; special circumstances; clearance; and termination.

**Our full online catalogue of courses can always be found at our website, <https://cait.rutgers.edu/cait/envets> or email Barbara Morgan at [barbara.morgan@soe.rutgers.edu](mailto:barbara.morgan@soe.rutgers.edu) for more info!**

### NJLTAP Contact Information

Comments may be addressed to :

100 Brett Road

Piscataway, New Jersey 08854

848.445.3112

<http://cait.rutgers.edu/njltap>

### NJ LTAP Staff

**Janet Leli**

[jleli@soe.rutgers.edu](mailto:jleli@soe.rutgers.edu)

**Ted Green**

[tngreen@soe.rutgers.edu](mailto:tngreen@soe.rutgers.edu)

**Barbara Morgan**

[barbara.morgan@soe.rutgers.edu](mailto:barbara.morgan@soe.rutgers.edu)

**David Maruca**

[dem200@soe.rutgers.edu](mailto:dem200@soe.rutgers.edu)

**Omid Sarmad**

[sarmad@soe.rutgers.edu](mailto:sarmad@soe.rutgers.edu)

**Lloyd Jacobs**

[ljacobspe@verizon.net](mailto:ljacobspe@verizon.net)

**General Inquiries**

[newjerseyLTAP@gmail.com](mailto:newjerseyLTAP@gmail.com)

