

# 2017 National Roadway Safety Awards NOTEWORTHY PRACTICES GUIDE

# WINNERS



Recognizing proven lifesaving  
achievements by public  
agencies from across  
the country



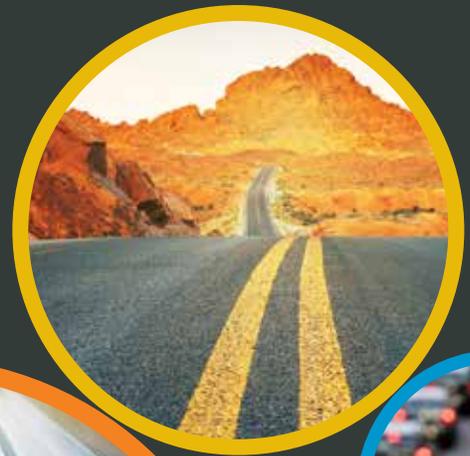
U.S. Department  
of Transportation  
**Federal Highway  
Administration**

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**Federal Highway Administration**  
and the **Roadway Safety Foundation**



## Recognizing life-saving engineering solutions that agencies have integrated into their roadway safety programs.

- Effectiveness
- Innovation
- Efficient Use of Resources





## LETTER FROM THE DEPUTY ADMINISTRATOR

It is my pleasure to present the nine winners of the 2017 National Roadway Safety Awards, a biennial competition sponsored by the Federal Highway Administration and the Roadway Safety Foundation to spotlight the nation's very best efforts by public agencies to save lives on our nation's roadways.

As you read through the case studies that follow, I have no doubt you'll be as impressed as I am by the ingenuity and effectiveness of these projects – from Virginia's "instant round-about" to Missouri's innovative design-build competition that will address dozens of trouble spots across the state. Moreover, you'll see that these agencies have been tremendous stewards of taxpayer funds and found ways to achieve impressive safety successes despite limited resources.

The awards program has twin goals – recognizing outstanding public agencies and their staff, and promoting the projects themselves in the service of best practice sharing and encouraging their use elsewhere. This *Noteworthy Practices Guide* is an important component of that second goal, as here you'll find practical and proven ideas, helpful graphics and visuals, and contact information for key project leaders. All of us at the Federal Highway Administration and the Roadway Safety Foundation hope to see these innovative ideas spread as we move the United States along the Road To Zero deaths.

**Please join me in congratulating all of the winners of the 2017 National Roadway Safety Awards!**

**Brandye L. Hendrickson**  
Deputy Administrator  
Federal Highway Administration

I have no doubt  
you'll be as  
impressed as  
I am by the  
ingenuity and  
effectiveness of  
these projects.

**U.S. Department of Transportation  
Federal Highway Administration**

1200 New Jersey Avenue, SE  
Washington, DC 20590

[safety.fhwa.dot.gov](http://safety.fhwa.dot.gov)



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**Federal Highway  
Administration**

# 2017 National Roadway Safety Awards

## LETTER FROM THE ROADWAY SAFETY FOUNDATION

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The National Roadway Safety Awards is one of my favorite endeavors in our Foundation's portfolio. It is the time when we get to hear directly from professionals in the field who are making a tangible difference, and honor these unsung heroes' dedication, innovation, and demonstrated lifesaving successes. At a time of increasing traffic fatalities and aging infrastructure, now more than ever we need to identify where progress is being made, and amplify those lessons learned for the benefit of others. We can reach our goal of zero deaths on the nation's roadways, but it's an effort that must proceed city by city, county by county, and state by state. This Guide presents some of the very best examples of what that means.

I'd be remiss not to thank our partners at the Federal Highway Administration, who provide the national leadership on roadway safety and who have supported this Awards program since its inception. Their spirit of collaboration and dedication to efficient diffusion of safety innovations has saved countless lives and set a national example for how we will ultimately eradicate traffic deaths.

On behalf of the staff of the Roadway Safety Foundation, I extend my heartfelt congratulations to all of the winners of the 2017 National Roadway Safety Awards, and my thanks to all of our excellent applicants. Whether you're reading this Guide to find ideas that you might be able to replicate in your agency, or whether you're simply reading it to learn a bit more about how your state or local highway officials are working to keep you safe, I hope you'll take from it a renewed appreciation for the vital role that safe roads play in saving lives.

**Thank you again, and congratulations!**

**Gregory Cohen, P.E.**

Executive Director

Roadway Safety Foundation

At a time of increasing traffic fatalities and aging infrastructure, now more than ever we need to identify where progress is being made.

**Roadway Safety Foundation**

1920 L Street NW, Suite 525

Washington, DC 20036-5012

[www.roadwaysafety.org](http://www.roadwaysafety.org)





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## WINNER (I&O): High-Friction Surface Treatment Systemic Safety Improvements

**The Safety Concern:** Roadway departures account for nearly 40% of Delaware’s fatal crashes, and half of them occur on curves

**The Solution:** High-friction surface treatments (HFST) dramatically improve traction and reduce fatal crashes

**The Result:** A 56% reduction in roadway departure crashes across the treated sites, and an overall benefit-cost ratio of 23.97

Based on statewide crash data, 38% of fatalities and 21% of serious injuries in the state of Delaware involved a roadway departure crash. Half of these crashes occurred within a horizontal curve. Additionally, wet/snowy/icy pavement accounted for 22% of roadway departure fatalities and serious injuries.

project, date of next resurfacing project, and presence of horizontal curvature. Once final locations were selected, DelDOT utilized a three-year, open-end contract established for HFST implementation using Highway Safety Improvement Program (HSIP), High-Risk Rural Roads Program (HRRRP), and Section 154 Penalty Transfer Funds.

High-friction surface treatments (HFST) are pavement applications that can dramatically and immediately reduce crashes at locations such as horizontal curves or where wet road surfaces reduce pavement friction. To address roadway departure fatalities and serious injuries, DelDOT implemented HFST as a safety improvement through the State’s Systemic Safety Improvement Program (SSIP).

As part of the SSIP, candidate locations for HFST were identified by reviewing the rate of roadway departure crashes that occurred on wet/snowy/icy pavement for all roadway segments in the state. Each candidate location was then screened to determine the feasibility and appropriateness of installing HFST. Factors considered included pavement condition, date of last resurfacing



Side-by-side comparison of newly-installed HFST (right) next to traditional surfacing (left).  
Photo courtesy Frank Julian, FHWA

As of April 2017, more than 33,396 square yards of HFST have been installed at over 20 locations. Before/after crash data shows that roadway departure crashes decreased by an average of 56% across all of the HFST locations collectively. Benefit/cost analysis indicates an overall benefit-cost ratio of 23.97.

Unlike other safety solutions that may involve geometric changes that require substantial funding, HFSTs are an innovative, low-cost, durable, and effective solution for reducing fatalities and serious injuries.

**Agency: Delaware Department of Transportation (DelDOT)**

**Project Contact:** Adam Weiser,  
Safety Programs Manager

**Email:** [Adam.Weiser@state.de.us](mailto:Adam.Weiser@state.de.us)

**Phone:** (302) 222-5905

## WINNER (I&O): Florida's Wrong-Way Driving (WWD) Mitigation Initiative

**The Safety Concern:** Wrong-way driving (WWD) incidents statewide, and a spike in WWD particularly in the Tampa Bay area, which experienced 11 WWD fatalities in one year

**The Solution:** A comprehensive approach to mitigating wrong-way driving through infrastructure and operational improvements, as well as policy changes and ongoing research, implementation and monitoring efforts

**The Result:** Sustained and proactive engineering countermeasures, education efforts, and enforcement actions helped mitigate WWD crashes statewide

Recently, there was a spike in wrong-way driving (WWD) crashes in Florida, and particularly in the Tampa Bay area during 2014. In one crash, four University of South Florida students were traveling on Interstate 275 when they were struck by a wrong-way driver. All five people involved died in this tragic crash. All totaled, in 2014 the Tampa Bay area experienced seven wrong-way crashes that resulted in 11 fatalities.

The rise in wrong-way crashes was not limited to the Tampa Bay area, but was observed statewide. The Florida Department of Transportation (FDOT) responded with the launch of the Wrong-Way Driving Mitigation Initiative. This initiative involved a holistic approach based on innovations in three areas:

- **POLICY** – FDOT developed a high-level framework that focused Department policy and decision-making on reducing WWD crashes.
- **INFRASTRUCTURE** – The agency revised design standards to more aggressively discourage wrong-way entry onto limited-access facilities. In conjunction with these changes, FDOT installed and evaluated emerging and experimental traffic control devices that are specifically designed to mitigate WWD.
- **MONITORING** – The FDOT Transportation System Management & Operations (TSM&O) team continuously monitors the WWD infrastructure and tracks its progress.

Infrastructure improvements included (a) new minimum signing and pavement marking standards for statewide implementation, (b) FHWA-approved Request for Experiment (RFE)



Photos courtesy FDOT



(Left) A rectangular-rapid flashing beacon at night alerts wrong-way drivers of their mistake. (Right) Enhanced pavement markings and signage provide clearer indication to motorists about which lanes lead to Interstate 10 eastbound.

with Red Rectangular Rapid Flash Beacon and Internally Illuminated Raised Pavement Marker installations in the state, (c) a statewide WWD study and three research projects with a focus on deployment and learning, and (d) developing best practices to implement WWD countermeasures. This systemic approach has resulted in a dramatic reduction in WWD incidents. In the Tampa Bay region, for example, in 2015 there were no WWD crashes, and in 2016 there was one WWD crash which resulted in two fatalities. The effectiveness of the innovative infrastructure improvements is continuously monitored by FDOT's State and District Traffic Engineering and Operations Offices to explore every possible avenue to mitigate wrong-way driving in the state.

**Agency: Florida Department of Transportation (FDOT)**

**Project Contact:** Raj Ponnaluri, P.E., PTOE, PhD, State Arterial Management Systems Engineer

**Email:** [raj.ponnaluri@dot.state.fl.us](mailto:raj.ponnaluri@dot.state.fl.us)

**Phone:** (850) 410-5616

## WINNER (I&O): Michigan's Improved Incident Scene Safety with Partnerships

**The Safety Concern:** A spike in vehicles striking fire department vehicles responding to crash scenes in the Grand Rapids area, and challenging freeway layouts that make providing advance notice to motorists difficult

**The Solution:** A multi-agency Traffic Incident Management (TIM) partnership that yielded new strategies for shielding and clearing crash scenes, including a crash attenuator truck and expedited towing

**The Result:** 31% reduction in tow truck response time, reduction in vehicles striking fire apparatus, and a 45% decrease in secondary crashes

Highway safety is a major concern not only for motorists, but also for the men and women that respond to unplanned traffic incidents. In less than one year in the Grand Rapids, MI area, for example, there were three separate incidents involving a vehicle striking a fire department truck that had responded to a crash scene.

A strong Traffic Incident Management Team (TIM) has been formed in the city of Grand Rapids to increase highway safety for everyone during emergency traffic incident responses on freeways. Partners on this team include representatives from the Michigan Department of Transportation (MDOT), Grand Rapids Police & Fire Departments, Michigan State Police, Kent County Road Commission, and the City of Grand Rapids. Over the past six years, this coalition has been able to successfully implement various innovative and unique initiatives to minimize first responders' exposure to traffic, and to reduce backups, delays, and secondary crashes associated with unplanned incidents on freeways.

The specific strategies that this team has established include the creation and deployment of the nation's first crash blocking vehicle used by a fire department, which is a modified city dump truck affixed with a crash attenuator. Additionally, the team developed and installed sight distance parking signs for first responders, and implemented high visibility markings on water standpipes along the freeway to facilitate their immediate location by responders. Instant Dispatch Towing has also been implemented, wherein tow trucks are immediately called to



Utility 2, a crash attenuator-modified dump truck.

the scene of a wreck at the same time that other emergency vehicles are summoned.

This combination of initiatives has resulted in a 31% decrease in the time it takes tow trucks to arrive on scene, and a reduction in the average number of vehicles striking an on-scene fire apparatus from one per year to zero in the last two years. These efforts have made a positive impact on not only the safety and mobility of motorists traveling along the freeways within Grand Rapids, but have also been extremely beneficial for the men and women that risk their lives on the highways when responding to crashes.

**Agency:** Michigan Department of Transportation (MDOT) and Partners

**Project Contacts:** Suzette Peplinski, Traffic Safety & Operations Engineer, MDOT West Michigan TOC

**Email:** [Peplinskis@michigan.gov](mailto:Peplinskis@michigan.gov)

**Phone:** (616) 451-8448

## WINNER (I&O): Minnesota's Implementation of Data Driven Safety Solutions

**The Safety Concern:** County roads in Minnesota account for half of all fatal crashes, but less than a quarter of vehicle-miles traveled in the state

**The Solution:** Development and implementation of County Road Safety Plans (CRSP) for all 87 Minnesota counties, emphasizing low-cost, systemic improvements over high-cost reactive treatments

**The Result:** 330 low-cost, proactive safety improvements on the county road network, and a 25% reduction in the county road fatality rate during the four-year period following the CRSP process

County roads account for half of the total number of fatal crashes in Minnesota, but only handle 24% of the total vehicle miles traveled in the state. Therefore, in an effort to improve roadway safety and save lives, Minnesota embarked on an ambitious undertaking in 2010 to develop County Road Safety Plans (CRSPs) for all 87 counties. Counties then implement improvement measures based on plan recommendations.

As a partnership between the Minnesota Department of Transportation and the Minnesota counties, the primary mission of the CRSPs was to improve the process for identifying safety issues by decreasing the burden on counties to complete a roadway risk analysis, select low-cost proven strategies, and submit complete and accurate projects to the HSIP solicitation

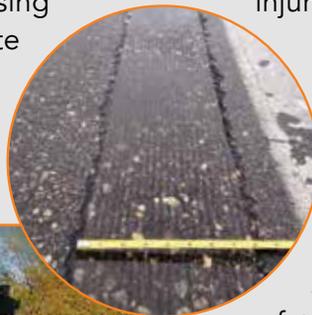
with the goal of increasing the number of implemented projects.

The CRSPs were built on the systemic approach to rural highway safety. This approach utilized risk as the basis for safety investment decisions rather than actual crash history. The focus of the CRSPs was the implementation of proactive, low-cost safety strategies on a system-wide basis rather than reactive, higher-cost safety projects at fewer locations. This proactive approach allows for funding allocation and countermeasure implementation based on roadway conditions or risk factors that make fatal and serious injuries likely to occur.

Implementation of low cost, proactive safety improvements on the county road network (330 projects funded through the Highway Safety Improvement Program for a total of \$80 million) resulted in a 25% reduction in the county road fatality rate during the four-year period following the CRSP process. More importantly, evidence suggests that the CRSPs are making a difference in saving lives and helping in the Minnesota Toward Zero Deaths drive.

**Agency:** Minnesota Department of Transportation (MnDOT) and Minnesota County Engineers Association

**Project Contact:** Mark Vizecky  
State Aid Programs Engineer  
**Email:** [mark.vizecky@state.mn.us](mailto:mark.vizecky@state.mn.us)  
**Phone:** (651) 366-3839



Photos courtesy MNDOT

Mainline Dynamic Warning System - ENTERING TRAFFIC WHEN FLASHING Sign Assembly at the intersection of US 2 and County State Aid Highway 46 near Duluth MN, St. Louis County.

Close Up of a Sinusoidal Rumble Strip on County State Aid Highway 61 in Crookston MN, Polk County.

## WINNER (I&O): VDOT's Instant Roundabout

**The Safety Concern:** An alarming increase in crashes due to rising traffic volumes

**The Solution:** An “instant roundabout” installed in less than a week using off-the-shelf products

**The Result:** An 89% reduction in injury crashes with a solution 95% less costly than a traditional roundabout

Modern roundabouts are one of the safest forms of intersection traffic control. Studies have demonstrated that they can reduce injury crashes by nearly 90 percent when they replace a two-way stop. The Virginia Department of Transportation (VDOT) is therefore installing roundabouts where appropriate across the commonwealth. However, there is a drawback: replacing a traditional intersection with a roundabout is a substantial construction project that is both costly and time-consuming.

Meanwhile, an intersection in Northern Virginia had a critical crash problem. As traffic increased at the intersection of Poland Road and Edgewater Street, crashes rose to as many as nine per year, with nearly half involving injury. VDOT’s engineers evaluated several forms of traffic control—all-way stop, traffic signal, and mini-roundabout among them—but the best traffic control for the intersection was determined to be a full-size roundabout.

Funding for a roundabout was justifiable based on the crash history, but VDOT could not ignore the immediate safety problem while waiting for permanent construction. Engineers developed an “instant roundabout” using off-the-shelf markings, tubular markers, and plastic curb sections instead of concrete. With community support, VDOT installed the instant roundabout in less than six days at a cost of \$90,000—95 percent less costly than a permanent roundabout at the same intersection.

The crash problem abated just as quickly as the roundabout was installed. Crashes dropped by 30 percent, but even more remarkable has been the reduction in injury crashes. The roundabout operated for nearly 3½ years



Photo courtesy VDOT

The “instant roundabout” at the intersection of Poland Road and Edgewater Street in Loudoun County, Virginia reduced crashes by 89%.

without a single injury crash, and it has now reduced injury crashes by 89 percent, about what would be expected of a permanent roundabout. A three-minute-long queue on the Edgewater approach has also disappeared. This highlights another key benefit of roundabouts: along with safety improvements, efficiency gains are realized as traffic flows freely in the absence of timed signals.

The positive safety results are leading VDOT to consider the treatment elsewhere as an immediate fix for preventing crashes while a permanent solution is identified and implemented. The Department is also working to identify traffic products that can make instant roundabouts even better, with lower maintenance needs.

**Agency:** Virginia Department of Transportation (VDOT)

**Project Contact:** Ivan Horodyskyj,  
District Traffic Engineer

**Email:** [ivan.horodyskyj@VDOT.Virginia.gov](mailto:ivan.horodyskyj@VDOT.Virginia.gov)

**Phone:** (703) 259-2330

## WINNER (PPDE): Alaska Safety Corridor Program

**The Safety Concern:** High rates of fatal and serious injury crashes – especially head-on collisions – on high-speed two-lane roads with seasonal traffic levels over 20,000 vehicles per day

**The Solution:** A multidisciplinary approach to safety involving collaboration between each of the “4 Es”: Engineering, Enforcement, Education, and Emergency Response

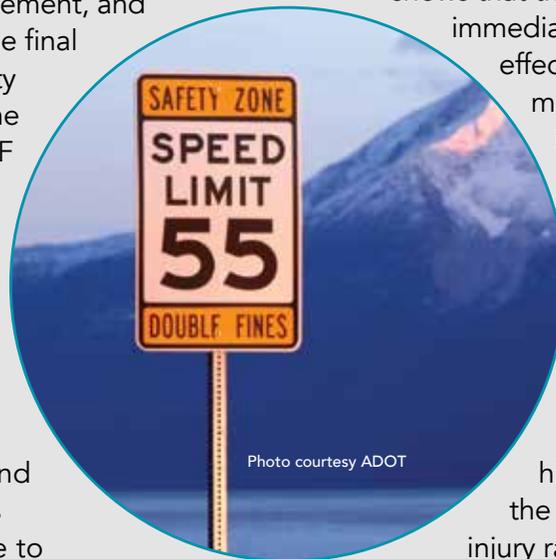
**The Result:** In the decade since Alaska’s Safety Zones were established by law, fatal and serious injury crashes have a sustained reduction in the established Safety Corridors by 45%

In 2006, Alaska signed into law a bill establishing “Safety Zones” on stretches of state roads documented to have the highest fatal and major injury crash rates and traffic volumes at or near capacity. The primary goal was to eliminate two-lane, high-speed, head-on collisions, centering on the Federal Highway mandated safety goal to focus on severe injury and fatal crashes. The bill directed that 50% of fines be appropriated to Alaska Department of Transportation and Public Facilities (ADOT&PF) highway safety programs, additional enforcement, and education opportunities. The final decision designating a safety corridor is determined by the Commissioner for ADOT&PF and the Commissioner for Public Safety.

The resulting data-driven program uses a multi-disciplinary approach where cost-effective engineering solutions, education, enforcement, and emergency service reviews (“4E’s Approach”) combine to combat high-risk driving behavior and mitigate capacity problems until long-term improvements are built. Economical and visible **engineering** solutions (passing and turning lanes, rumble strips, high level warning signing, and delineation) have been combined with **educational** tools like radar speed signs and repeated media campaigns, as well as increased law **enforcement** actions. **Emergency** responder consultations

result in targeted winter maintenance efforts, addressing incident communications equipment needs, and planning for rescue equipment, as well as improved lines of communications between the 4 E’s. Data collection appears to reflect fewer high-risk drivers due to increased enforcement and threat of increased fines. This synchronization appears fundamental to each corridor’s success.

Subsequent data – collected and analyzed yearly – shows that the 4E Approach can have immediate and lasting positive safety effects within a corridor: fatal and major injury crashes are down in Alaska’s four established Safety Corridors by 45% overall since May 2006. Additionally, in 2018, the state plans to be able to remove the Safety Corridor designation for the first time: a major overhaul to convert a road into a divided highway is expected to bring the road’s fatality and serious injury rate below the state average, and therefore allow it to “graduate” from the Safety Corridor program.



Safety Zone Speed Signage in Alaska.  
Photo courtesy ADOT

**Agency:** Alaska Department of Transportation & Public Facilities (ADOT&PF)  
**Project Contact:** Scott Thomas, Regional Traffic & Safety Engineer, Central Region  
**Email:** [scott.thomas@alaska.gov](mailto:scott.thomas@alaska.gov)  
**Phone:** (907) 269-0639



## WINNER (PPDE): New Jersey Roundabout Implementation Program

**The Safety Concern:** The intersection of two county roads in Burlington County, NJ had experienced severe crashes and was identified for improvements

**The Solution:** The installation of a roundabout at the location

**The Result:** A 100% reduction in right-angle and left-turn crashes at the location, and additional roundabout implementation elsewhere in the state

The intersection of CR 528 and CR 660 in Chesterfield Township, Burlington County had experienced severe crashes and was identified for improvements in the Delaware Valley Region. A data-driven approach helped engineers identify the use of a modern roundabout as the preferred design alternative. However, buy-in was also needed from a skeptical public.

Engineers and local officials were able to use innovative data-driven safety analysis tools to communicate the benefits of modern roundabouts to the citizens of Burlington County. The roundabout was built in 2014, and the before-and-after crash analysis indicated a 100% reduction of right-angle and left-turn crashes.

The New Jersey Department of Transportation (NJDOT) now is not only promoting roundabouts for state roads, but has initiated a pilot roundabout program for intersections under local jurisdiction. Nine counties have been approved to build modern roundabouts and several others are in the process of submitting applications. An example of a forthcoming project is shown in the photos to the right.

Due to citizens' support of the Chesterfield Township roundabout, Burlington County has built three more modern roundabouts utilizing a variety of funding sources. NJDOT is confident that use of innovative infrastructure treatments utilizing data-driven tools will result in significant reductions in intersection fatalities in New Jersey.



Photo courtesy NJDOT



Photo courtesy NJDOT

(Top) Existing Route 206 Whitehorse Circle, Hamilton Township, Mercer County.

(Bottom) 206 Whitehorse Roundabout to be completed Fall 2017.

**Agency: New Jersey Department of Transportation (NJDOT)**

**Project Contact:** Sophia Azam, Executive Manager

**Email:** [sophia.azam@dot.nj.gov](mailto:sophia.azam@dot.nj.gov)

**Phone:** (609) 530-3474

## WINNER (PPDE): Safety Projects Evaluation Report

**The Safety Concern:** Outcome evaluations are an important, but often-overlooked, element in demonstrating that safety investments achieved their real-world potential

**The Solution:** : A thorough review of six years of safety projects

**The Result:** Strong, actionable evidence for TDOT showing a 60% reduction in crash frequency overall, and cost-effectively identifying additional locations in need of further study or improvement

Evaluation is a critical, but all-too-often-overlooked, component of robust safety management. To determine the effectiveness of a variety of safety improvements made, the Tennessee Department of Transportation’s (TDOT) Project Safety Office — part of the Strategic Transportation Investments Division — committed to analyzing the effectiveness of safety projects in its Highway Safety Improvement Program from 2010 to 2015. Phase One of the analysis examined 261 sites with crash data three years before and after implementation of the safety improvements recommended in the site’s road safety audit report. Phase Two of the analysis involved a more detailed review of 45 sites using the Highway Safety Manual (HSM) to estimate crash frequency with and without implementation of safety countermeasures.

Phase One suggests that the TDOT safety program has been overall successful in reducing crash frequency by 60%. Comparing before and after crash numbers, there were 157 sites out of 261 that indicated a reduction in crashes after implementation of the recommended countermeasures. Seventy-eight sites had an increase in crashes after implementation and 26 sites had no change. The number of fatalities and incapacitating crashes did not change for 93 sites, increased for 60 sites, and decreased for 108 sites.

In Phase Two, TDOT conducted an Empirical Bayes (EB) before/after evaluation of 45 sites. This method included using a safety performance function (SPF) to predict crash frequency, adjusting for site specific geometric and traffic volume conditions, and weighting



Crash-modification factor analysis of roundabout installation.

the observed crash frequency with the SPF-predicted crash frequency to obtain an expected average crash frequency. In measuring the safety effectiveness, it was found that 56% percent of the sites had a reduction in observed after-crash frequency compared to before-crash frequency.

The HSM is an excellent tool for introducing crash prediction capabilities to transportation planning, design, and maintenance. As TDOT continues to advance the Project Safety Office with the development of Tennessee-specific data, this information will assist to further implement the HSM effectively. The safety project evaluation will continue as additional projects are completed, and TDOT will use the HSM to achieve its goal of reducing crashes in Tennessee.

**Agency: Tennessee Department of Transportation (TDOT) — Project Safety Office**

**Project Contact:** Brandon Darks, Manager — Project Safety Office

**Email:** [Brandon.Darks@tn.gov](mailto:Brandon.Darks@tn.gov)

**Phone:** (615) 253-3999

## THE 2017 BLUE RIBBON PANEL



Our sincere thanks to this year's blue ribbon panel. Each of the judges below dedicated significant time and energy to evaluate the pool of applicants on the basis of innovation, effectiveness, and efficient use of resources. Without their contributions, the Awards program could not succeed.

### King W. Gee

Director of Engineering and Technical Services  
American Association of State Highway and  
Transportation Officials (AASHTO)

### Michael S. Griffith

Director, Office of Safety Technologies  
Federal Highway Administration

### Bruce Hamilton

Director of Safety and Research Programs  
Roadway Safety Foundation

### Bernardo Kleiner

Senior Program Officer –  
Transportation Safety Specialist  
Transportation Research Board (TRB)

### Jennifer Smith

Director, Image and Brands  
Michelin North America

### Marie B. Walsh, PhD

Director  
Louisiana Local Technical Assistance  
Program (LTAP)

### Terecia Wilson

Senior Fellow, Institute for Global Road  
Safety and Security  
Clemson University

## ABOUT THE SPONSORS

### The Federal Highway Administration

The FHWA Office of Safety's mission is to significantly reduce highway fatalities and serious injuries by making our roads safer through a data-driven, systematic approach to putting safety first when applying engineering, education, enforcement, and emergency medical services.

Focus areas include:

Comprehensive Strategic  
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Pedestrians and Speed  
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**Federal Highway  
Administration**

US Department of Transportation  
Federal Highway Administration  
1200 New Jersey Avenue SE  
Washington DC 20590  
(202) 366-2288  
[safety.fhwa.dot.gov](http://safety.fhwa.dot.gov)

### The Roadway Safety Foundation

The Roadway Safety Foundation is a 501(c)(3) nonprofit charitable and educational organization solely dedicated to reducing the frequency and severity of motor vehicle crashes by improving the safety of America's roadways. To this end, the RSF focuses on improving the physical characteristics of roadways, such as design and engineering, operating conditions, removal of roadside hazards, and effective use of safety features.



Roadway Safety Foundation  
1920 L Street NW, Suite 525  
Washington DC 20036  
(202) 857-1228  
[www.roadwaysafety.org](http://www.roadwaysafety.org)



U.S. Department of Transportation  
**Federal Highway Administration**

1200 New Jersey Avenue SE  
Washington DC 20590  
(202) 366-2288  
[safety.fhwa.dot.gov](http://safety.fhwa.dot.gov)



1920 L Street NW, Suite 525  
Washington DC 20036  
(202) 857-1228  
[www.roadwaysafety.org](http://www.roadwaysafety.org)