



2018 YEAR IN REVIEW

Innovation. Modernization. Communication.
CUSTOMER EXPERIENCE.



**STATE HIGHWAY
ADMINISTRATION**



MESSAGE FROM THE GOVERNOR

As Maryland's economy continues to grow and prosper, the performance of our State's transportation system is increasingly important to the quality of life of our citizens. Facilitating the movement of people and the flow of goods through our State directly impacts our ability to connect our citizens to life's opportunities.

Our administration continues to deliver transportation projects and solutions, which have improved our roads, bridges, transit systems, airports and the Port of Baltimore. Our balanced program of transportation investments has included key projects like the Purple Line in Prince George's and Montgomery counties, the recent completion of BaltimoreLink, the Traffic Relief Plan, and dedicated funding for the Washington Metropolitan Area Transit Authority (WMATA). Through strategic investments in the State's economic engines, we have seen record growth in cargo at the Port of Baltimore, as well as an expanding number of passengers passing through the Baltimore Washington International Thurgood Marshall Airport. We continue to focus on our customers' experiences concentrating on projects, like the MDOT Motor Vehicle Administration's Customer Service Initiative, which reduces wait times at our facilities, improves our delivery options through the internet and kiosks, and reduces tolls and fees at our transportation facilities.

By measuring our progress with implementing efficient and effective transportation solutions, we will continue to be a leader in transportation performance, and define ways to move forward in the future.



Larry Hogan
Governor

MESSAGE FROM THE SECRETARY

The Maryland Department of Transportation (MDOT) is a customer-driven transportation agency that directly touches the lives of Maryland residents and visitors. Each day, we facilitate the movement of people and the flow of goods and service, helping to connect our customers to life's opportunities.

We strive to provide exemplary customer service through a network of six transportation units. The MDOT State Highway Administration (SHA), one of those units, guarantees that our numbered, non-toll roads are well built and meet the needs of a State whose people and business are thriving.

The Maryland Department of Transportation State Highway Administration modernizes, finding new ways to respond to the challenges of increased traffic. For example: MDOT SHA's Innovative Congestion Management (ICM) project on busy I-270 between Frederick and Washington, DC is in the second year of construction and will ultimately eliminate 14 bottlenecks on State roads. The innovative Traffic Relief Plan, a Public Private Partnership, will bring \$10 billion of private financing to relieving congestion in Baltimore, Montgomery and Prince George's counties, and hot spots around the State.

To relieve congestion and improve safety, MDOT SHA managed 470 active construction projects valued at \$3.6 billion and planned another 48 advertised projects, totaling 518 projects valued at \$4.2 billion for FY 2019. This past year, under Governor Hogan's leadership, we improved our entire transportation network through targeted investment, innovative project delivery, practical design, and cost savings. We are keeping another promise the Governor made when he first took office, a promise to rehabilitate 69 structurally deficient bridges - we've now addressed them all with all needed repairs or replacements under construction or design.

Safety remains our top priority. In 2018 the emergency vehicles from our Coordinated Highway Response Team (CHART) reached a milestone by making its one millionth response. We introduced high friction surface treatment, which reduces crashes into barriers by 74 percent. We installed adaptive signals at 20 intersections. We deployed real-time, intelligent signal communications in 133 locations. And we deployed bridge deck ground penetrating radar to examine bridge safety.

As always, we are committed to getting the most out of every tax dollar we spend. Through our Excelsior Performance Management Program, MDOT is delivering improved innovation, teamwork, accountability, and enhanced communication.



Pete K. Rahn
Secretary

MESSAGE FROM THE ADMINISTRATOR

DRIVING CHANGE FOR MARYLAND MOTORISTS

We are a new MDOT SHA and we are delivering. I often marvel at the hard work and dedication of the 3,000 men and women of MDOT SHA. We are all delivering innovation, modernization, communication and an outstanding customer experience to “drive change” for Marylanders. This report shows exactly how we did that.

We delivered historic levels of construction to improve congestion and safety with 108 completed projects, totaling \$531,548,714, including the completion of the Severn River and Dover bridges. We treated the pavements of half of all state lane miles, investing more than \$260 million in FY 2018 and ensuring over 85 percent of the network was maintained AND we addressed all 69 bridges that were identified as structurally deficient when Governor Hogan took office in 2015.

We continue to drive forward with the \$10 billion Traffic Relief Plan, part of a system of systems that will relieve congestion. The TRP includes a congestion relief study for I-495 and I-270 to be delivered at a net zero cost to taxpayers through the largest highway Public-Private Partnership in North America. Saving nearly 700,000 drivers time, TRP includes Smart Traffic Signal upgrades for 14 corridors around the region, a new configuration of the I-695 / I-70 interchange that will directly address six of the top 15 congested road segments in the state, and adaptive ramp metering technology, as well as new travel lanes on I-695 from I-70 to MD 43.

Every project we’re currently working on has elements of Transportation Systems Management and Operations (TSMO), which will determine how we design and implement future projects. TSMO will connect all of our dots. As we focus on delivering projects, we must also focus on the system. Making the SYSTEM work great, look great and remain safe!

The year 2018 proved to be challenging with a major winter storm that hit the Eastern Shore, snow totals of 261 inches in Western Maryland, and record rains resulting in extensive flooding and significant infrastructure impacts. Even while addressing these challenges, we continued to share the future of Maryland transportation. We unveiled the S.T.O.R.M. application, and our customers can track the progress of our snow plows. We are driving change and delivering results!



Greg Slater
MDOT SHA Administrator

YOUR MDOT SHA...BY THE NUMBERS

A safe, well-maintained highway system is crucial to a strong economy, enabling mobility and access for people and goods from and throughout the State of Maryland, keeping people safe as they travel, and improving the quality of life of Maryland's citizens.

MDOT SHA

owns and maintains the Interstate, U.S., and Maryland numbered, non-toll routes in



Maryland Counties

MDOT SHA roads carry

66% of state traffic

17% of road mileage

that translates to

59,484,000,000

vehicle miles travelled¹ in Maryland in 2018

17,178+

Lane Miles² of Roads and Ramps



2,960 employees



7 Engineering Districts

State Maintained **Bridges**

2,567



33 Maintenance Shops



35 billion ton-miles of goods carried



Estimated to carry

204.5 million tons of freight



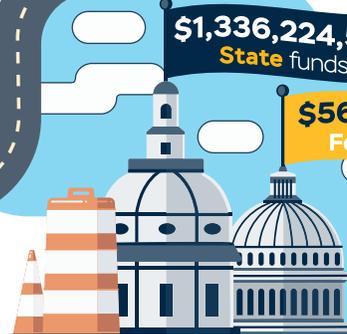
with over **\$303.9** billion in value



\$1,336,224,559 State funds

\$568,736,966 Federal funds

MDOT SHA Funding



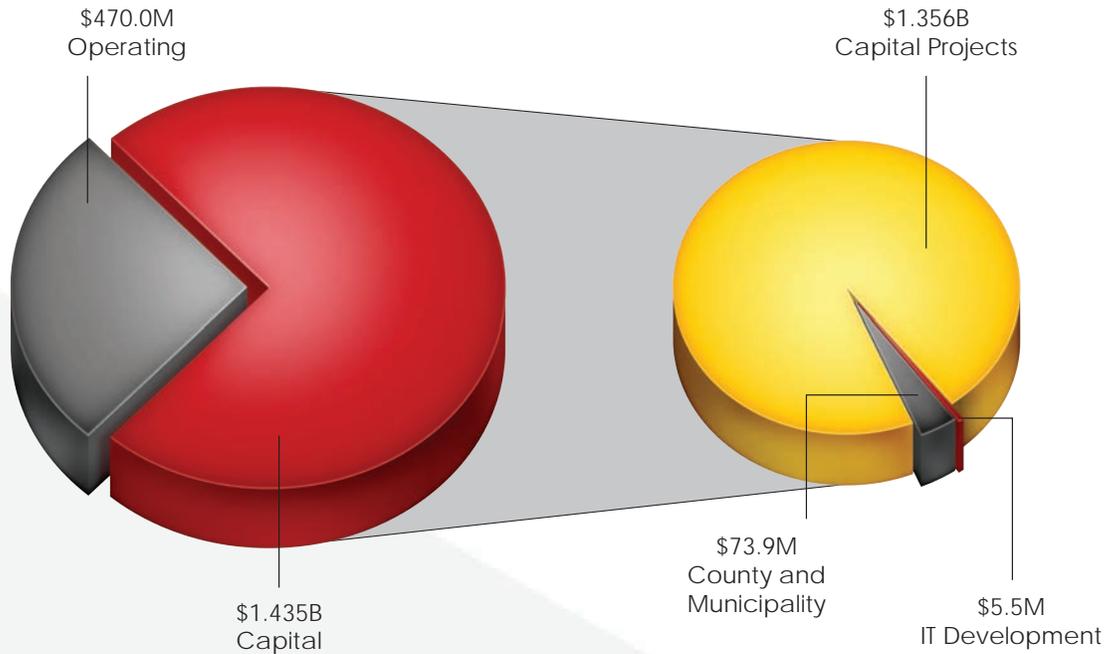
*Source: U.S. Department of Transportation Freight Analysis Framework (FAF4) Version 4.4.1 that was refactored using 2016 data. To report 2018 data, a 3% annual growth rate was applied. The water tonnage date based is for 2018, based on U.S. Army Corp of Engineers reporting.

¹ Vehicle miles of travel (VMT) is the number of miles traveled by all vehicles on all roads.

² Lane-miles is the term used for the mileage down the center line, multiplied by the number of lanes.

FUNDING FOR FY 2018

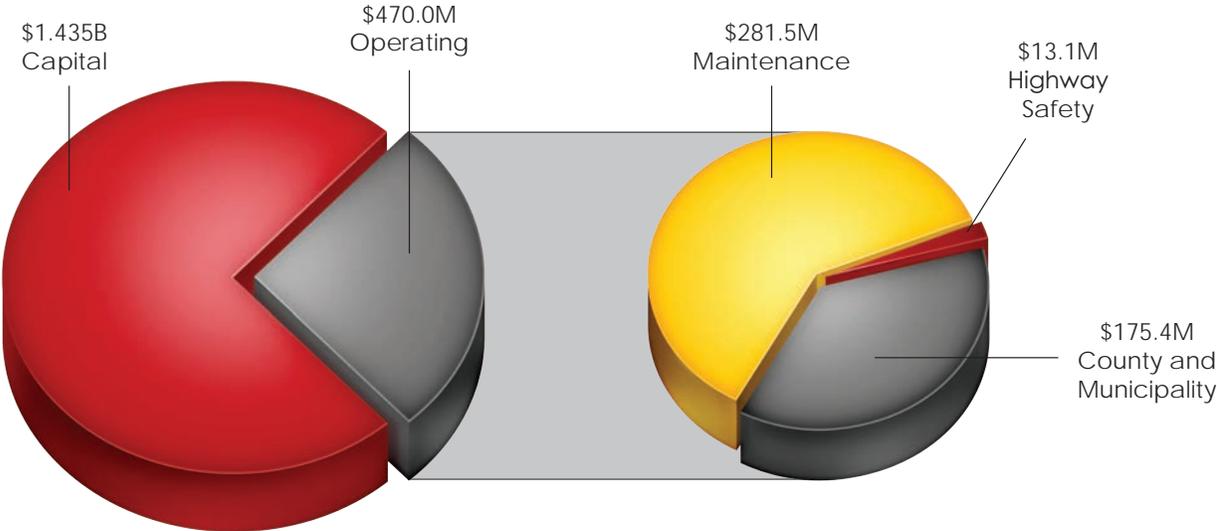
MDOT SHA USE OF FUNDING FOR CAPITAL FY 2018



CAPITAL PROJECTS FUNDS SPENT	FY 2018
Major Projects (planning, design, right of way and construction phases)	\$419.3M
Bridge Rehabilitation Projects	\$191.9M
Pavement Resurfacing/Rehabilitation Projects	\$274.5M
Safety-Related Infrastructure Projects	\$92.9M
Multimodal Access Projects	\$49.3M
Traffic Management	\$61.7M
Environmental Projects	\$127.9M
Facilities, Equipment, Research	\$81.8M
Reimbursable Expenses, Other	\$56.7M
TOTAL	\$1.356B

Funding for MDOT SHA activities originates from State and federal transportation funds. MDOT SHA collaborates with citizens, communities, and elected officials to deliver hundreds of high-quality projects, from system preservation to major investments through planning, design and construction.

MDOT SHA USE OF FUNDING FOR OPERATING FY 2018



OPERATING MAINTENANCE FUNDS SPENT	FY 2018
Routine Maintenance	\$125.8M
Bridge Maintenance	\$4.4M
Environmental Design and Compliance	\$5.9M
Traffic/CHART Operations	\$29.5M
Winter Operations	\$86.7M
Electricity	\$9.1M
Maintenance Support	\$14.6M
Other	\$5.5M
TOTAL	\$281.5M

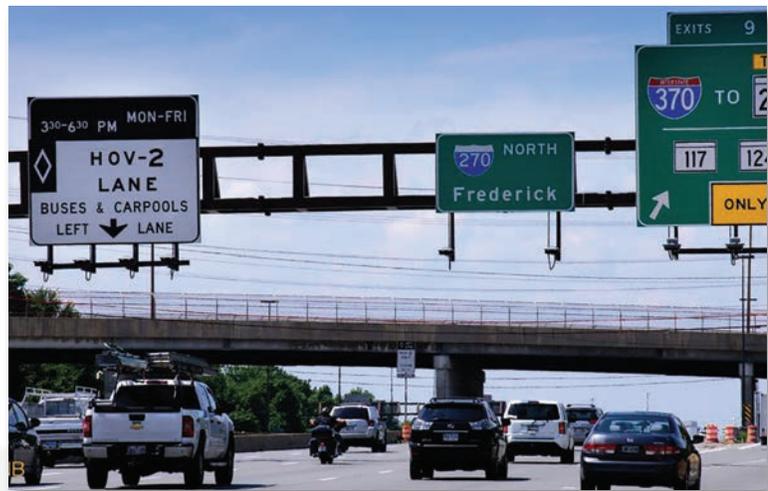
TOP **TEN**

ACCOMPLISHMENTS OF **2018**

1

108 COMPLETED PROJECTS ACROSS THE STATE

MDOT SHA delivered another historic level of construction to improve congestion and safety across the state with 108 completed projects, totaling \$531,548,714 in 2018. Work continued on 524 active construction projects valued at \$3.95 billion. One of those projects is the I-270 Innovative Congestion Management project – bringing the power of go to the I-270 corridor.



2

EMERGENCY RESPONSE TO ONE OF MARYLAND'S WETTEST YEARS

Emergency Response: 2018 was the wettest year in Maryland history dating back to 1871. Precipitation totaled nearly 72 inches (30 inches above annual average) with a record number of flood events. Because of these severe rain events, MDOT SHA staffed dozens of road closures, and performed emergency repairs in 24 different locations. And MDOT SHA battled an unusual Eastern Shore “blizzard,” dumping more than 14 inches of snow accumulation on most of the lower Eastern Shore. During the storm, MDOT SHA crews worked around the clock to ensure all major routes remained open and passable.



3

SEVERN RIVER BRIDGE COMPLETION

The US 50 (John Hanson Highway) Bridge over the Severn River in Annapolis serves as a major connector for thousands of motorists along one of the busiest corridors in the State of Maryland. Every day, it was a choke point for rush hour traffic heading eastbound, exponentially exacerbated by beachbound traffic on weekends. Construction began in September 2017 for the \$26.1 million project and it opened to traffic one month early in April 2018, prior to the heavy summer peak traffic.

4

DOVER BRIDGE COMPLETION

A new Dover Bridge has been a top transportation priority for more than two decades. The \$66.4 million Dover Bridge, which carries MD 331 (Dover Road) over the Choptank River between Talbot and Caroline counties, opened in June 2018. The new bridge is 2,020 feet long with two 12-foot lanes, 8-foot shoulders, and 50-foot clearance above the Choptank River for marine traffic. The old bridge is one of only three remaining swing span bridges in Maryland and remains in an open position serving the community as a fishing pier.



5

ESTABLISHED A SYSTEM FOCUS RATHER THAN A PROJECT FOCUS

MDOT SHA began implementing Governor Hogan’s Traffic Relief Plan, including a public-private partnership proposal, to bring hundreds of thousands of people much-needed relief from traffic congestion stealing precious time:

- I-495 and I-270 Managed Lanes Study well underway with extensive public outreach during the study phase
- I-695 innovative active traffic management project underway with new design for I-70 interchange
- Smart Traffic Signals implementation statewide to save nearly 700,000 people time
- Implemented adaptive signals at 20 intersections along three corridors
- Began implementation of MDOT SHA’s first urban mobility-focused program



TOP TEN

ACCOMPLISHMENTS

(CONTINUED)

6

IDENTIFIED AND FUNDED DEFICIENT BRIDGES

ALL of the 69 structurally deficient bridges identified and funded for repair by Governor Hogan in 2015 have been addressed – with most completed or under active construction.



7

HALF OF ALL LANE MILES TREATED

Reached a milestone of HALF of all lane miles treated on MDOT SHA maintained roads, treating more than 8500, lane miles across the state in the last four years.

8

DEPLOYED HIGH FRICTION SURFACE TREATMENT ON PAVEMENTS

Deploying a High Friction Surface Treatment on pavements (74% reduction in traffic barrier impacts) has enhanced safety for hundreds of thousands of drivers. A more economic and efficient alternative to reconstruction or major rehabilitation, High Friction Surface Treatment increases roadway friction, enhancing vehicle traction on pavement surfaces. The greater the surface friction, the more control drivers have of their vehicles, which is especially important in wet conditions.



9

LAUNCHED MARYLAND'S TRANSPORTATION AND CIVIL ENGINEERING PROGRAM (TRAC)

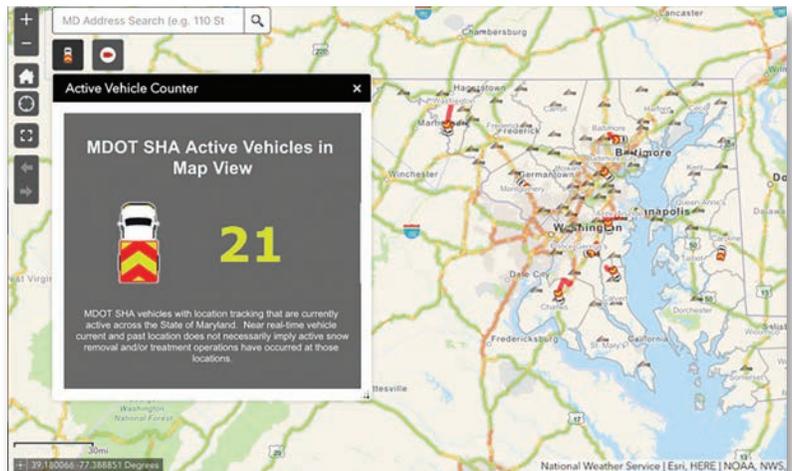
2018 saw the launch of Maryland's Transportation and Civil Engineering program (TRAC), a national program that stirs interest in STEM and engineering, bringing real world engineering applications to students. In a total of eight schools, TRAC has been introduced to: four schools in the City of Baltimore, two schools in Prince George's County, one school each in Anne Arundel County and Baltimore County. A founding TRAC Bridge Builder team placed as a finalist and earned the privilege of presenting and competing nationally.



10

LAUNCHED MAJOR SNOW OPERATIONS OF S.T.O.R.M. AND MARWIS

Launching of major snow operations improvements including the new, innovative S.T.O.R.M. web application and Mobile Advanced Road Weather Information Sensor (MARWIS). The S.T.O.R.M. application allows users to track MDOT SHA plows to see which roads have been plowed, providing a better, more customer service centered method of communicating and offering the public a chance to see our deployed force in action. MARWIS takes measurements 100 times per second while directly installed to MDOT SHA vehicles. With accurate real-time road conditions, MDOT SHA can make sound decisions concerning plow deployment, sensible salting and pretreating. Over the past five years, MDOT SHA has seen more than 50% reduction in salt usage.



GOVERNOR

PRIORITY PROJECTS

MD 5 (Point Lookout Road) between Camp Brown Road and the Lake Conoy Causeway (Point Lookout) – St. Mary’s County: Upgrade and widen MD 5 between south of Camp Brown Road and the Lake Conoy Causeway (2.2 miles). This project will add bicycles and pedestrian accommodations. Total cost \$26.6 million. Project completion fall 2021.

I-83 (Baltimore-Harrisburg Expressway) Bridges over Padonia Road – Baltimore County: Replace the twin bridges over Padonia Road. One of the bridges was part of Governor Hogan’s 2015 commitment to address 69 structurally deficient bridges. Total cost \$25.8 million. Project started summer 2018 and will be complete fall 2021.

US 40 (Pulaski Highway) Bridges over Big and Little Gunpowder Falls – Baltimore/Harford County line – \$30.4 million: This project rehabilitates four bridges along US 40. One of the bridges was part of Governor Hogan’s 2015 commitment to address 69 structurally deficient bridges. Rehabilitation started summer 2018 and will be complete summer 2021.



US 1 (Washington Blvd.) Bridge over CSX Transportation – Baltimore County – \$34.0 million: This project replaces the bridge over the rail tracks, and the new structure will be 120 feet longer and 4 feet higher to enable CSX Transportation to add future rail lines, a rail service road and added height to allow for double stacked freight cars. The wider structure will provide wide shoulders, as well as a

new left-turn lane from northbound US 1 to Clark Boulevard. The bridge project also includes new retaining walls along US 1 and reconstruction of the Clark Boulevard intersection to accommodate the new left-turn traffic movement. One of the bridges was part of Governor Hogan’s 2015 commitment to address 69 structurally deficient bridges from the 2015 submission. The project started summer 2018 and will be complete fall 2021.





I-95/I-495 (Capital Beltway) Bridge over Suitland Parkway – Prince George’s County – \$33.8 million:

One of the bridges was part of Governor Hogan’s 2015 commitment to address 69 structurally deficient bridges. Rehabilitation of the bridges started fall 2018 and will be complete fall 2021.

I-95/I-495 Bridges over MD 214 (Central Avenue) – Prince George’s County:

This \$26 million project is part of Governor Hogan’s 2015 commitment to address 69 structurally deficient bridges. The \$31.5 million project started in fall 2018 and will be complete fall 2021. This involves two long-term ramp closures within the I-95/I-495 and MD 214 interchange.

MD 32 widening from a two-lane highway to a four-lane divided highway between Linden Church Road and I-70 – Howard County – \$127.7 million:

This project will widen seven miles along MD 32 in Howard County. The project will start early 2019 and will be complete summer 2022.

MD 137 (Mt. Carmel Road) Bridge over I-83 replacement project – Baltimore County – \$8.9 million:

The project started summer 2017 and was opened late-spring 2018, addressing one of the 69 deficient bridges inherited by Governor Hogan in 2015. The decision was made to install a temporary bridge to carry MD 137 traffic over I-83 during construction, which eliminated construction-related delays and expedited the project.

Construction of US 219 Relocated (Chestnut Ridge Road), Garrett County:

This \$61.4 million project is a design-build project, creating a new 1.4 mile highway alignment along US 219 between I-68 and Old Salisbury Road. The existing US 219 highway will be designated as US 219 Business. The new four-lane highway will include a median, two roundabouts and turn lanes connecting to US 219 Business, as well as the reconstruction of the I-68/US 219 relocated (the new road) interchange. The project will be complete summer 2021.



TRAFFIC RELIEF PLAN



As a state with the second longest commuting times, MDOT SHA is always looking for innovative ways to provide impactful relief. Congestion is not only frustrating, it's costly. Maryland motorists lose hours of productivity and gas sitting in traffic and delivery of goods and services are delayed. In an effort to ensure Marylanders can take advantage of life's opportunities, Governor Hogan announced a more than \$10 billion Traffic Relief Plan (TRP), part of a system of systems that includes both transit and highway options.

Specifically, the Traffic Relief Plan includes adding capacity and new lanes on I-270 between I-495

and I-70, as well as I-495 between the American Legion Bridge and Woodrow Wilson Bridge. Additionally, the TRP seeks to transfer ownership of MD 295 from the US Department of the Interior to the Maryland Transportation Authority to add capacity and new lanes between Washington, D.C. and Baltimore. Not only will the Traffic Relief Plan enhance capacity on some of Maryland's most heavily-trafficked routes, it will also add smart signal upgrades statewide saving nearly 700,000 drivers' time.



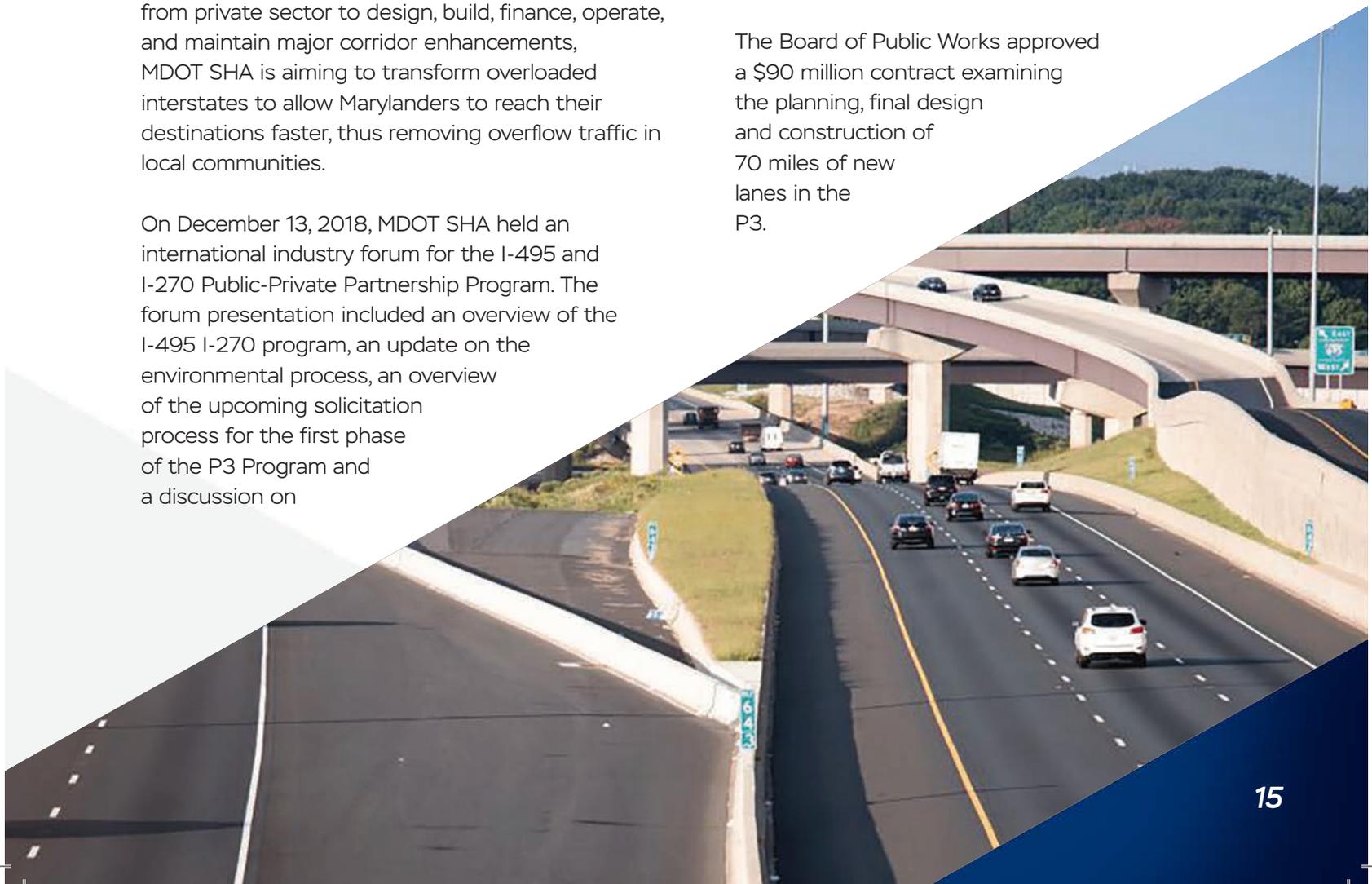


At the beginning of 2018, MDOT SHA opened its Public-Private Partnership office. By seeking input from private sector to design, build, finance, operate, and maintain major corridor enhancements, MDOT SHA is aiming to transform overloaded interstates to allow Marylanders to reach their destinations faster, thus removing overflow traffic in local communities.

On December 13, 2018, MDOT SHA held an international industry forum for the I-495 and I-270 Public-Private Partnership Program. The forum presentation included an overview of the I-495 I-270 program, an update on the environmental process, an overview of the upcoming solicitation process for the first phase of the P3 Program and a discussion on

opportunities for small, minority, and women-owned businesses.

The Board of Public Works approved a \$90 million contract examining the planning, final design and construction of 70 miles of new lanes in the P3.



MDOT SHA PRIORITIES: INNOVATION

MDOT SHA is exploring new technologies and always looking for creative ways to improve how we do business. The customer experience is at the heart of what we do. By setting the bar high, we are building a culture of innovation and excellence in the quest to usher new, transformative solutions. With the Power of Go, see where we can take you.



NEW S.T.O.R.M. WEB APPLICATION ALLOWS MOTORISTS TO TRACK PLOWS DURING WINTER WEATHER EMERGENCIES

What if knowing when your street would be plowed was as simple as entering your address into a mobile-friendly web application? With MDOT SHA's new Statewide Transportation Operations Response Map (S.T.O.R.M.), our customers can now track pre-treating brine trucks in advance of and during a storm in real-time on state-owned highways!

An innovation that enhances our customer service experience and interaction, the new application will show where MDOT SHA and contractual plows are and where they've most recently traveled. Equipment is visible only when moving at 10 mph or faster, eliminating screen clutter. With the metro area's first measurable snowfall coming before Thanksgiving and a number of snow events in Western Maryland, the S.T.O.R.M. application comes just in time to keep the people of Maryland informed.

SPARKING BRIGHT IDEAS WITH PROJECT GREEN LIGHT

Launched in 2017, Project Green Light allows MDOT SHA team members to submit ideas for review that address the our four focus areas: Innovation, Modernization, Communication and Customer Experience. In a format similar to popular television show "Shark Tank", if an employee's idea is approved they have five minutes to present it to a panel of senior management, including MDOT SHA Administrator Greg Slater. Empowering our work force to bring their ideas forward is guiding MDOT SHA forward! So far, we've had three sessions and 33 presentations, 15 of which are complete or in the implementation process.



Notable Project Greenlight projects include:

- An RSS feed with all statewide traffic updates.
- Using Microsoft Exchange more efficiently regarding room scheduling and resource management.
- Revising MOT standards for Bicycle and Pedestrian Projects, implementing effective training for designers and contractors.
- Revamping office design to stimulate productivity and increase job satisfaction.
- Consolidating one safety team for all of MDOT SHA and building a separate department that handles workers compensation claims.
- Streamlining our Maintenance Office's recruitment processes.
- Setting up an electronic system to approve consultant invoices.
- Implementing a new, more efficient property notification system
- Automating job vacancy management

This is a NEW MDOT SHA. We are trying new things, thinking differently, and thus delivering outstanding results! Such opportunities motivate staff to think as an organization, not merely an individual. Moving the agency forward by encouraging innovative ideas is helping us continue to be a NATIONAL LEADER IN TRANSPORTATION.



UNMANNED AERIAL VEHICLE (UAV) EXPANSION

Last year we introduced 'UAVs' or drones to the MDOT SHA workforce. Originally used to review environmental compliance, drones have since expanded in their application to include major construction process innovation. In an effort to monitor and map Maryland's geological hazards, MDOT SHA is now using UAV technology to expedite data collection. With the help of drone flight, we can now safely collect aerial photos to provide high accuracy, detailed maps and 3D terrain models. This way, we have a working digital map of roadway terrain to make sound, educated construction decisions from. MDOT SHA has procured it's own UAV, and we have an in-house pilot trained to properly operate it and obtain the necessary deliverables for our many roadway projects.

MDOT SHA PRIORITIES: MODERNIZATION

MDOT SHA is building upon what is already great! From improved systems management and operations to streamlining administrative processes to cut down on cost and timelines, we are ready now to face the challenges of tomorrow's transportation needs.

PERFORMANCE-BASED TRANSPORTATION SYSTEMS MANAGEMENT AND OPERATIONS (TSMO) ACTION PLAN

TSMO is MDOT SHA's new, modern, integrated approach to optimizing the performance of existing and programmed infrastructure.

How do we accomplish that? With the implementation of multimodal, intermodal and often cross-jurisdictional systems, services and projects. Overall, TSMO will be the new driving force for how we design and implement the roads of tomorrow.

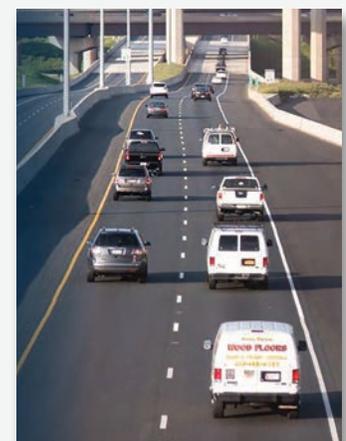
We cannot gauge our success as an organization on infrastructure alone. Increasing demands on our transportation infrastructure such as a growing population, more drivers and vehicle miles traveled pressurize this system. Here at MDOT SHA, we recognize the need for a new transportation approach that balances capacity and operational improvements. Consequently, we are strategizing methods to make better use of existing transportation infrastructure through TSMO. By 2030, Maryland's population is projected to increase by more than 600,000, while passenger and truck miles are expected to increase by 15-20 percent. Therefore, TSMO makes sense. TSMO is about extracting the maximum performance for the greatest value out of our system. Compared to capacity expansion,



DESIGNING FOR DENSITY

An aspect of Transportation Systems Management and Operations, MDOT SHA is designing with

density in mind. Travel technology (Waze, Google Maps, etc.) has created more and more congestion on side roads, smaller corridors and the neighborhoods we live in. The likelihood of sitting in frustrating gridlock is ever-increasing. How do we combat this? MDOT SHA is, now and looking to the future, designing with density in mind.





By focusing on infrastructure, volume and regionally specific traffic trends, we continue to innovate and modernize our roadways with congestion relief at the forefront of our solutions. MDOT SHA is responsible for 17,764 lane miles and 2,547 bridges. To keep traffic down and adequately maintain congestion throughout this expansive network, MDOT SHA is narrowing lanes, implementing HOV lanes, lowering speed limits and introducing hard shoulder running, managed lanes and Connected and Autonomous Vehicle Technology.



IMPLEMENTING THE MOBILE ADVANCED ROAD WEATHER INFORMATION SENSOR (MARWIS)

The Mobile Advanced Road Weather Information Sensor (MARWIS) is a mobile road weather device that measures road conditions and environmental data. The sensor takes measurements 100 times per second while directly installed to MDOT SHA vehicles. Used to collect data on temperature, relative humidity, dew point and

road conditions; specific conditions include dry, moist, wet, ice/snow and chemical wet. As well as calculating ice percentages and weather-related surface friction, MARWIS is able to compile this data on the cloud and forward these values to the Statewide Operations Center.



With new data showing road conditions, MDOT SHA is able to make sound decisions concerning plow deployment, sensible salting and pretreating as well as whether or not to use environmentally friendly salt brine. Saving money and time, and making significant strides to reduce salt usage, MARWIS is the new cutting-edge tool used on our fleet of over 1,000 pieces of snow equipment. Accurate road condition analysis and the consequent sensible salting practices following data collection is yet another way MDOT SHA is keeping a close eye on weather-related circumstances to establish long-term, innovative strategies for improvement.

MDOT SHA PRIORITIES:

COMMUNICATION

Good communication is the root of any organization's success. The people of Maryland deserve clear, transparent information from any and all government agencies. Informed customers can make sound decisions regarding the state's transportation network if they are communicated with often, accurately and effectively. To communicate well with our audience, we must first establish a dialogue with all Maryland residents.

AGRICULTURE SAFETY CAMPAIGN

During Maryland's harvest season (September - November) drivers often see more combines and

other large, slow-moving equipment on rural routes. In partnership with the Maryland Department of Agriculture and Maryland Farm Bureau, MDOT SHA educated motorists about the increase in farm vehicles during this time and urged drivers to share the road in 2018's Agriculture Safety Campaign.

Farmers are legally allowed to operate their large equipment on public roadways, and often - especially during harvest season - there are times when they must operate on a highway between farm and field. Harvesting farm equipment is very large, and likely will share travel lanes while working adjacent to Maryland state routes. To communicate effectively with everyone and in an attempt to be a good neighbor, MDOT SHA positioned electronic message signs throughout the state and pushed harvest safety messaging through social media.

SOCIAL MEDIA MESSAGING

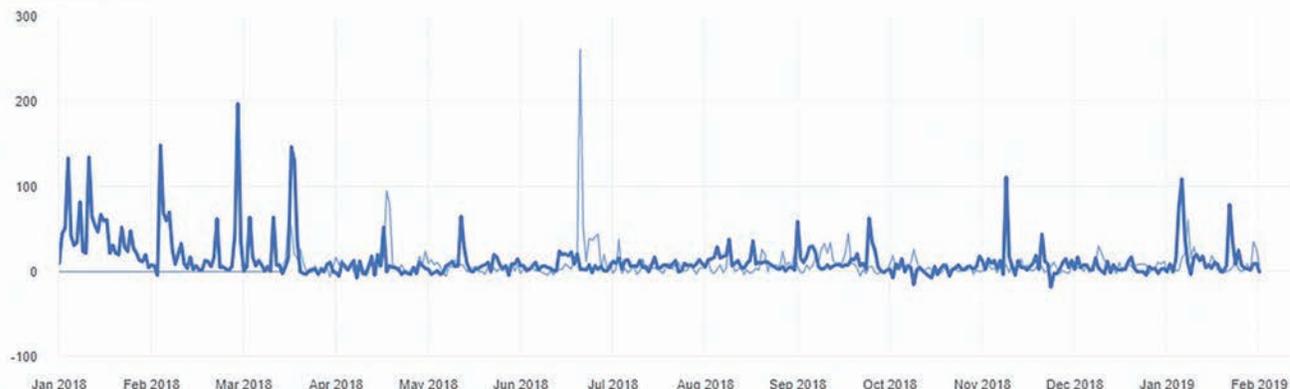
In an age where digital marketing is key to any successful agency's communications strategy, MDOT SHA is quickly spreading the word about major road closures, safety campaigns, educational opportunities and driver preparedness. The information our engaged customers expect is crucial to getting them to their jobs, their children's after-school events and their favorite vacation locations. MDOT SHA has 65,662 Facebook followers, 50,660 Twitter followers and 3,050 Instagram followers who embrace our highway network as part of their community and require frequent updates. In the years to come, MDOT SHA



Net Followers

Jan 1, 2018 - Feb 8, 2019

5,746 Net Followers



will continue to grow their social media circle to ensure as many Marylanders as possible receive the latest information on state road conditions.

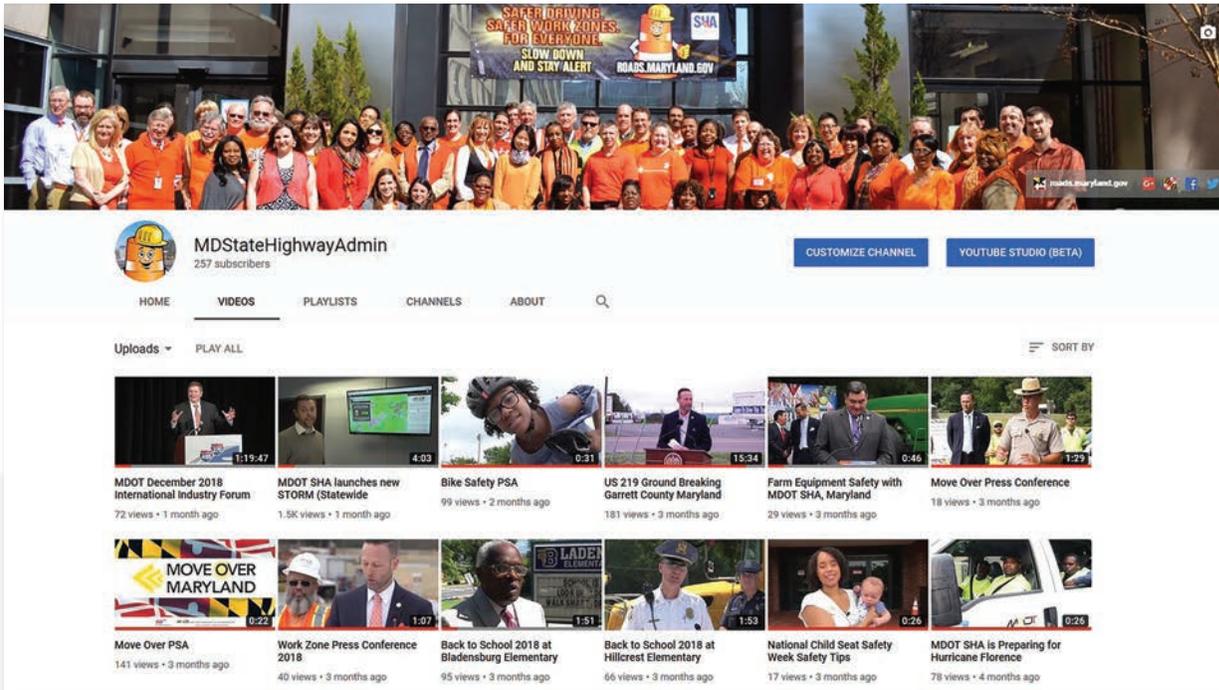
THE POWER OF VIDEO

Social video generates 1,200 percent more shares than texts and images combined and drives a 157 percent increase in organic traffic from search engines (Brightcove). Based on these facts, this year MDOT SHA worked hard to modernize our communications processes with the power of video.

With 248 subscribers to our Youtube channel, we've used video to announce the long-awaited US 219 realignment construction project in Garrett County which will benefit businesses and residents, opening up the Appalachian region's economic development opportunities. Additionally, over the summer digital media helped us encapsulate MDOT SHA's shore improvements. With over 500 views, the easier, safer

and better trip to Maryland's Eastern Shore video conceptualized improvements to the US 50 - Severn River Bridge, US 301 and MD 304 interchange, MD 404, the MD 331 Dover Bridge, US 113, the 11 bridges along the Salisbury Bypass, and Coastal Highway pedestrian safety enhancement. Not to mention, with over 600 views, MDOT SHA also announced their new web application: S.T.O.R.M. The new app allows Marylanders to track snow plows in real time. Customers are now able to see exactly when plows will visit their neighborhoods and where they treated up to 10 minutes prior.





Thanks to social sharing as well as organic engagement, in 2018 alone, MDOT SHA's Youtube channel attracted 15,400 views. Moving forward, we plan to make video a central focus of our communications strategy.

INTERNAL COMMUNICATIONS - REINSTATING THE INTERCHANGE AND MOMENTUM



Administrator Greg Slater sends out a monthly newsletter called *Momentum* to inform MDOT SHA's internal audience of the latest pulse of our major milestones. With significant events speeding down the pipeline, it's crucial to keep everyone on the same page. We are all customer service ambassadors, so making sure we're all well informed on agency-wide news is vitally important to keeping the public in-the-know. *Momentum* includes significant news for each pillar of excellence - innovation, modernization, communication and customer service experience.

"MDOT SHA has reinstated The Interchange as well, a quarterly newsletter which features

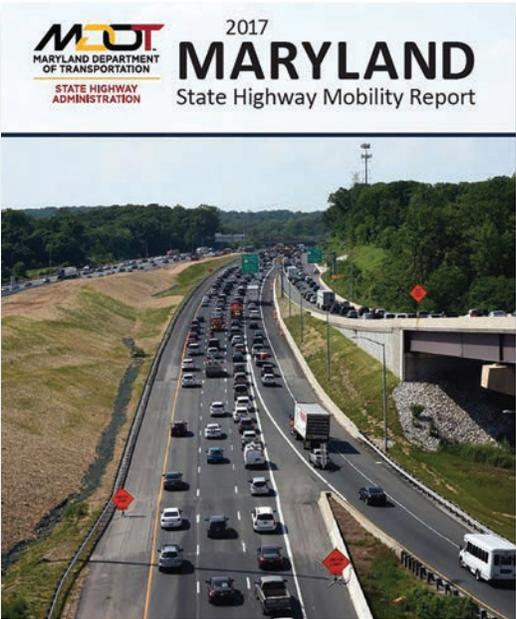


spotlights on hardworking team members, significant promotions, a welcome to new employees and focus on stories of career excellence! Another excellent method for spreading awareness of administrative changes and major news, The Interchange keeps MDOT SHA's internal audience up-to-date on the agency's pulse."

Good communication is the root of any organization’s success. The people of Maryland deserve clear, transparent information from any and all government agencies. An uninformed public cannot make sound decisions regarding the state’s transportation network if they are not communicated with often, accurately and effectively. To communicate well with our audience, we must first establish a dialogue with all Maryland residents.



TRAVELER’S INFORMATION AND THE 2017 MOBILITY REPORT



This year, we expanded our automated weather safety messages on digital message signs (DMS) as well as the number of DMSs that display travel times. In addition, surveys show that our DMS messages have an over 95 percent approval rating from Maryland motorists.

Not only are we getting information to our drivers quickly and clearly through DMS, we are also building the 2017 Mobility Report, a detailed record that dives into performance and mobility trends from 2016 and compares the results to how we’ve done in the past. The mobility report outlines the projects we are planning to implement to solve mobility issues. Doing so helps more and more motorists understand the need for infrastructure improvements and designing for density.

MDOT SHA PRIORITIES:

ENHANCING THE CUSTOMER EXPERIENCE

Outstanding customer service is crucial to Maryland motorists' perception of how we serve them. Following the largest construction program in history, we are working each and every day to deliver the projects that matter to our customers. Reducing travel times and making your daily trips smoother and safer, we are embarking on a bold mission to maintain excellent customer service. Through that, we are building an exceptional customer experience that facilitates a well-maintained, aesthetically pleasing and environmentally conscious highway network.

2018 LITTER CAMPAIGN

Throughout the year, MDOT SHA hosted multiple Adopt-A-Highway and Litter pickup events where community members, employees and volunteers worked hard to put roadside debris where it belongs: IN THE TRASH.



Additionally, MDOT SHA partnered with the Maryland Port and Living Classrooms to unveil Captain Trash Wheel, Masonville Cove's newest trash-gobbling, kid-friendly water-wheel trash interceptor. During the event, MDOT SHA spread the word about the TBU's very own litter campaign, "From Roadways to Waterways: Where Does it Go?", which educates

Maryland residents about how a bottle discarded from a car window will eventually find its way into the treasured Chesapeake Bay. The campaign was incorporated into MDOT SHA's Maryland State Fair display where children had the opportunity to remove litter from a pool and win a prize. MDOT SHA invests nearly \$1 million each year for litter removal; funds that could best be used elsewhere until we understand that each fast food wrapper tossed is literally like throwing dollars from the car window.

We can all help keep Maryland clean by taking the time to dispose recyclable items correctly and by making the effort not to litter our surroundings.



GRASSROOTS OUTREACH

To better connect with our customers, MDOT SHA is out there on the ground, in your local community starting the conversation. From outreach at Baltimore City's annual Artscape event to connecting with schools in Prince George's County to remind drivers of the importance of pedestrian safety, we set up booths with educational material and giveaways. Additionally, if a new highway project will affect a local community with closure or detours, MDOT SHA is out there, in your community. Above all, we want to make sure Maryland citizens stay informed with as little cost to their taxpayers dollars as possible.



DISTRICT OPEN HOUSES

MDOT SHA hosts District Open Houses, an opportunity for local families to tour MDOT SHA maintenance facilities to see winter operation equipment up close and meet our team. In 2018, the event was hosted by District 6's LaVale Shop, and more than 50 visitors attended from across the state - almost double from 2017. This year, MDOT SHA received shining reviews for snow removal practices, year-round roadway maintenance and welcoming, helpful staff.



DELIVERING EVERYDAY

FOR OUR CUSTOMERS

MDOT SHA ASSET MANAGEMENT

Asset management (AM) is a strategic way to manage MDOT SHA assets like roads, bridges, pavement, guardrails, signals, and fleets of repair trucks. The key point about asset management is that making regular repairs, instead of waiting for breakdowns, allows MDOT SHA to extend the life of these assets and reduce overall cost. For example, by regularly painting a bridge, it suffers less corrosion. The bridge lasts longer and MDOT SHA saves the far greater cost of replacing it. Using a business term, MDOT SHA gets a better return on investment (ROI) using asset management.

Another example: MDOT SHA, along with other MDOT business units, aggressively repairs vehicles in its fleet. In each of the first nine months of 2018, the Fleet Vehicle On-Time Preventive Maintenance percentage was 93% or better.

MDOT SHA responds to immediate needs and at the same time, applies asset management systemwide.

We look at individual projects and at the system. We repair potholes as they're reported, but we also

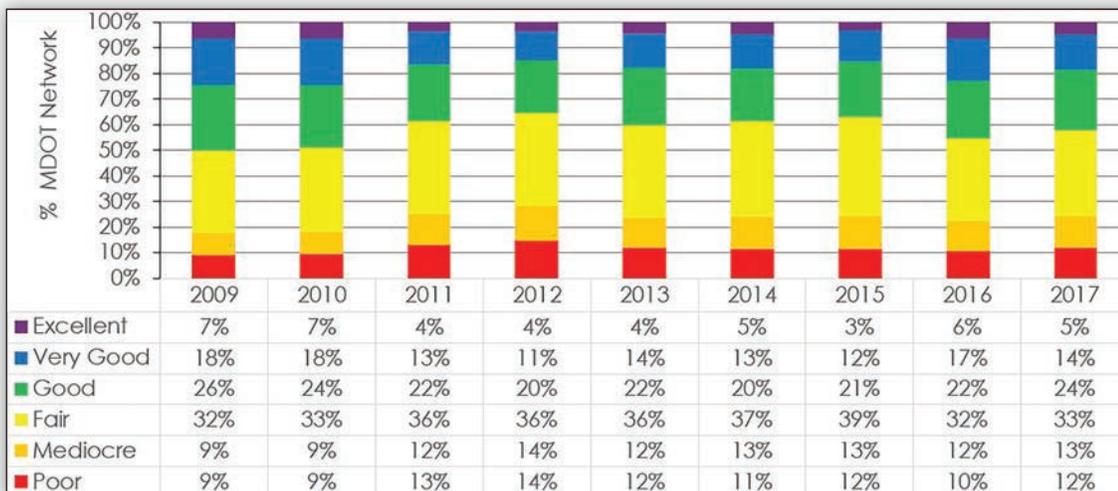
focus on maintaining pavement systemwide. We address Structurally Deficient Bridges, but we also focus on the system by keeping bridges off that list (MDOT SHA's program is one of the best in the country; we repaired or scheduled repairs to all 69 bridges identified as structurally deficient when the current administration took office). We examine every crash, crash location, injury and fatality in detail to prevent future collisions at each site, but we also focus programmatically on crash types and go at them hard with engineering, re-engineering, education and enforcement strategies.

We address congested locations with projects and the most congested roadways in the State with larger efforts, but we examine intersecting roads and the system to address broader issues. That means that when we consider a project on I-270, we also look at MD 355; we look at I-70 leading to Western Maryland and also US 29, which branches from it; we plan not only for the major Interstate I-95 but also MD 100 and US 1.

Further, we work with MDOT to plan highways and transit – air, rail and truck freight together. While we enhance our transportation and transit systems,

we also plan safe travel for pedestrians and cyclists.

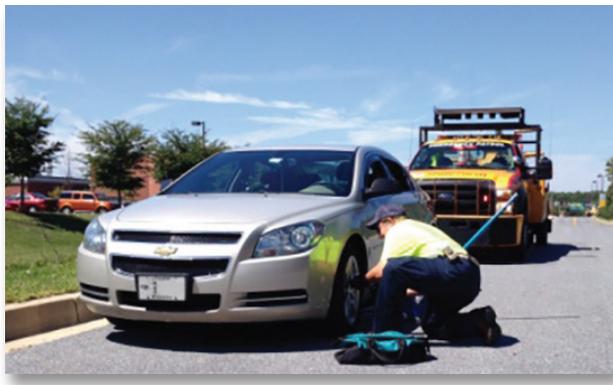
Using reliable data MDOT SHA takes an active approach and invests wisely – from pothole repairs to fleet maintenance.





RESPONDING TO EMERGENCIES

Our motorist assists are a key element of MDOT SHA delivering an exceptional customer experience every day. MDOT SHA's Coordinated Highway Action Response Team (CHART) is a multijurisdictional, multidisciplinary, statewide program. A comprehensive and advanced traffic management system with a Statewide Operations Center 'hub,' CHART functions 24 hours a day, seven days a week. With satellite Traffic Operations Centers and emergency traffic patrols spread across the state to handle peak-period traffic incidents, CHART achieved their 1 millionth traffic assist - a record since the program's implementation in the mid-1980s.



MDOT SHA's CHART incident management program saved motorists \$1.465 billion in user costs and helped reduce delays by 38.6 million vehicle hours in CY 2017.

ENVIRONMENTAL STEWARDSHIP

MDOT SHA cares about our environment and is implementing a variety of restoration activities for its Chesapeake Bay Restoration program to meet pollution reduction goals by October 2020. Efforts during Fiscal Year 2018 included projects to reduce nitrogen, phosphorus and sediment from entering the Chesapeake Bay by:

- Restoring 238 linear feet of streams;
- Planting more than 30,106 trees on 200 acres, and
- Constructing or upgrading 74 stormwater treatment facilities to improve the quality of water running off.

MDOT SHA also awarded 19 Full Delivery Stream Restoration Projects that will deliver over 150,000 linear feet of stream restoration (1,500 MS4 Restoration Credit Acres) when completed. The multiple awards resulting from a single Request for Proposals (RFP) approach is the first of its kind for this industry, and has provided increased efficiency across the project implementation activity spectrum. In addition to these innovative contract approaches, MDOT SHA advertised several traditional contracts including a successful partnership with several State and local agencies for over 16,000 linear feet of stream restoration at Piney Run.



ENVIRONMENTAL STEWARD

MDOT SHA partnered with other State agencies for innovative environmental mitigation projects including:

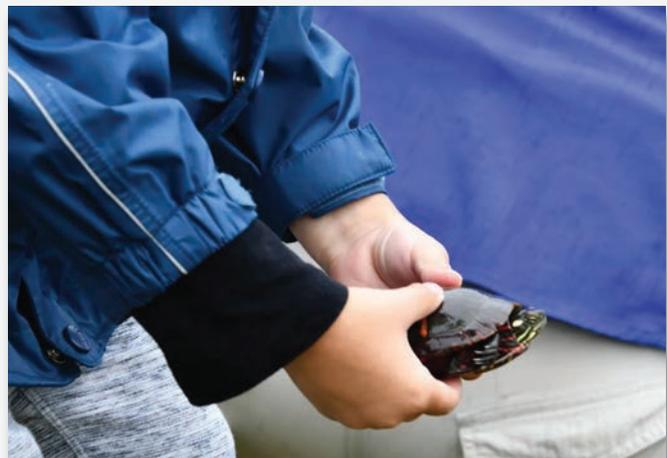
- Bloede Dam Removal – partnership with the Maryland Department of Natural Resources to secure 12,740 linear feet of stream restoration credits to mitigate for future highway construction impacts while participating in an environmentally beneficial project.
- Beltsville Agricultural Research Center – partnership with the United States Department of Agriculture, Maryland Department of Environment, and U.S. Army Corp of Engineers to construct 2.460 linear feet advanced compensatory mitigation at the Beltsville Agricultural Research Center to obtain 5.31 acres of wetland restoration credits and of stream restoration credit.



This year, MDOT SHA performed mitigation efforts as part of the rehabilitation of the US 40 (Pulaski Highway) Bridges over the Big and Little Gunpowder Falls. In an effort to keep Maryland Open for Business and protect the Chesapeake Bay, OED's Environmental Programs Division (EPD) partnered with our customers, including the Oyster Recovery Partnership and a fleet of boats including 11 local watermen, to remove old, rusted and lost crab pots from an area of about 3,000 acres near the mouth of the Gunpowder River where it meets the bay. An innovative, collaborative effort led by Mark Smith (OED EPD), he tells us the importance of removing

these 'ghost pots' from the Chesapeake Bay, "When traps become lost, they actually continue to fish - their bait continues to attract crabs and other aquatic species (turtles, fish, etc.), which may become trapped and die. These trapped species eventually become bait and the cycle goes on." Partnerships like this help us continue to be a steward to the environment while delivering everyday for our customers and ensure Maryland stays Open for Business!

Additionally, MDOT SHA partnered with the Terrapin Institute, a group of concerned citizens dedicated to the understanding, persistence, and recovery of diamondback terrapins through effective management, research and frequent public outreach. We joined the Terrapin Institute to celebrate the release of local turtles that were displaced during the Annapolis Harbour Center Pond's restoration project, their original home.



SAFETY CAMPAIGNS

OCEAN CITY PEDESTRIAN FENCE: To enhance pedestrian safety along MD 528 (Coastal Highway), MDOT SHA cut ribbon on the completed 2.7-mile, \$8.4 million project which includes new pedestrian median fencing between MD 90 (Ocean City Expressway) and Convention Center Drive. The median fence joins other infrastructure and engineering improvements including new signals, signal timing adjustments, new signage and sidewalk upgrades completed over the last five years as part of a comprehensive pedestrian safety improvement project. The engineering efforts complement the award-winning Ocean City Walk Smart! Campaign, with special emphasis on nighttime safety, bicycle safety as well as basic pedestrian and driver safety. Cheswick the Crab makes appearances throughout the summer, and public service announcements, plane banners, boardwalk trams, digital boat boards will share the message as well.



TEACHING PEDESTRIAN SAFETY WITH THE HELP OF VIRTUAL REALITY: In 2018, MDOT SHA partnered with Street Smart to provide an exciting virtual reality experience! To teach pedestrians and motorists alike the importance of looking up and looking out, the game immerses the player in a typical driving scenario. While operating Street Smart's virtual vehicle, points are dependent upon how many pedestrians / bicyclists the driver locks eyes with. To help Maryland motorists understand that driving is a constantly changing environment and that taking your eyes off the road for a split second could lead to tragedy,



MDOT SHA stresses how crucial pedestrian safety is. It's not just the responsibility of the pedestrian, but a critical relationship between the driver and pedestrian. These close calls are designed to show the public what can happen if they're not obeying the laws and looking out for people around them.

SAFETY CAMPAIGNS



MOVE OVER MARYLAND: MDOT SHA partnered with key organizations to lead the State to publicize Maryland's expanded Move Over law that includes transportation, service and utility vehicles, as well as waste and recycling trucks, with yellow or amber flashing lights or signal devices. These join the list of protected vehicles under the State's current Move Over law, which include emergency response and law enforcement vehicles, as well as tow trucks. With a press conference, video public service announcement production and heavy social media presence, MDOT SHA introduced Marylanders to the new law, which particularly protects mobile work zones such as pothole repair, landscaping and litter pick-up.



The new law requires drivers approaching one of these vehicles with red, yellow or amber flashing lights that is stopped, standing or parked along the highway to, when possible, move over a lane. This movement should only be done if another lane in the same direction is available and the move can be made safely and without impeding other traffic.

If the driver is unable to make a lane change, the law requires drivers to slow to a reasonable and prudent speed that is safe for existing conditions while passing the emergency or service vehicles. Over the past year, there were several serious work zone-related crashes including one in late November that resulted in the death of one contractor and the injury of three contractors on I-70.

BICYCLE SAFETY CAMPAIGN: The MDOT SHA bicycle safety education effort includes messaging to both bicyclists and drivers. The campaign issues the plea: follow the rules and laws of the road and look out for each other. This effort reinforces the need to see and be seen and to expect and respect each other. The campaign reminds drivers that the next cyclist they encounter could be someone they know: their doctor, a coworker or a friend's child.



MDOT SHA's bicycle safety campaign features actual Maryland bicyclists. They are all volunteers who bike regularly, either for commuting or for recreation. They are also sons and daughters, moms and dads, friends, neighbors and coworkers. They might be someone you know.

MDOT SHA "A Bicyclist May Be Someone You Know" bicycle campaign evolved this summer with new public service announcement volunteers, including a pediatrician, a rocket scientist, an IT specialist, as well as a middle schooler who is also a competitive cyclist.

"I volunteered for the campaign to spread awareness and decrease the number of accidents involving motor vehicles and cyclists. Bicycle safety is important to me because my 12-year old daughter and I both cycle, as well as many friends and associates," said Mark Wimbush, campaign volunteer and father of 12-year old competitive cyclist, Maize Wimbush (pictured above).

WORK ZONE SAFETY: The State's robust 2018 maintenance and construction program and more than 400 major projects equated to more work zones that can be dangerous for our workers as well as the traveling public. Members of the MDOT SHA team took action with "Go Orange," a grassroots movement to raise awareness of work zone safety. MDOT SHA representatives made a pitch for work zone safety, literally and figuratively, through a comprehensive education campaign that included grassroots outreach at baseball events across Maryland this spring and summer.



In April during Work Zone Safety Awareness Month, MDOT SHA Administrator Greg Slater threw the first pitch for the Baltimore Orioles and members of the MDOT SHA team joined him on the field with a work zone safety banner. Later that summer in a home game against the Texas Rangers, MDOT SHA Statewide Rodeo winner Bryan Palmer from

the Keyer's Ridge Shop threw out the first pitch. Work Zone Safety Advocate, Laurie Moser, was also recognized as the Baltimore Orioles Birdland Community Hero. Laurie, who lost her husband Rick to a work zone crash, works tirelessly to help keep workers and drivers safer in work zones.

Throughout April, MDOT offices and over 50 partners hosted Go Orange days to start a conversation about safe work zones. Maryland Governor Larry Hogan lit the Government House in the State Capital of Annapolis in orange. The Baltimore Ravens lit the M & T Stadium orange as well. On average, more than 700 people nationwide lose their lives annually in work zone crashes. The goal of the Go Orange effort is to keep our travelers and workers safe.

PURSUIT OF EXCELLENCE

MD 404 HIGHWAY WIDENING AWARDED BEST COMMUNITY DEVELOPMENT PROJECT IN THE NORTHEASTERN STATES!



America's Transportation Awards competition selected the MD 404 Widening Project as the best in the northeastern states in the Quality of Life / Community Development Category for medium projects. The 11.3 mile dualized MD 404 provides a direct route between US 50 and the Town of Denton, enhancing safety and operations for residents and reducing traffic congestion caused by high season peaks associated with summer resort traffic.

Maryland Quality Initiative: 2018 was a year of transportation excellence and industry expertise. The Maryland Quality Initiative (MDQI) is a cooperative industry effort dedicated to the continuous quality improvement of the planning, design and maintenance of Maryland's transportation system. MDOT SHA won six major MDQI awards!



MDQI PROJECT OF THE YEAR!

MDOT Municipal Awards

Project under \$5 Million:

Winner: MD 546 (Finzel Road) Bridge over I-68

Scope: Rehabilitate MD 546 Bridge over I-68

Project Bid Cost: \$4 million

Firms: Wallace Montgomery - Cockeysville, MD

East Coast Bridge - Nitro, WV

Location: Garrett County

From Left to Right: Dan Cheng (MdQI Co-Chair), Earl Lewis (MDOT Deputy Secretary), Les Komar (WMA), Dipa Patel (Project Engineer, OOS), Devin Miller (Assistant District Engineer, D6), Matthew Skeen (Triton Construction), Tim Smith (Deputy Administrator/Chief Engineer for Operations).



MDOT Municipal Awards

Project over \$5 Million:

US 301 at MD 304 Improvements

Bid Cost: \$30 million

Firms: Wallace Montgomery - Cockeysville, MD
David A. Bramble, Inc. - Chestertown, MD

Location: Queen Anne's County

From Left to Right: Dan Cheng (MdQI Co-Chair), Earl Lewis (MDOT Deputy Secretary), Rob Hudson (Wallace Montgomery,) Chuck Breeding (David A. Bramble), Tim Smith (Deputy Administrator/Chief Engineer for Operations), Lindsay Bobian (Team Leader, OHD), Mike O'Malley (Project Manager, D2).



Partnering: Construction - Gold Award:

I-695 Bridge Widening from MD 41 to MD 147

Bid Cost: \$23.7 million

Firms: The Six-M Company - Delta, PA

Location: Baltimore County

From Left to Right: Dan Cheng (MdQI Co-Chair), Earl Lewis (MDOT Deputy Secretary), Tim Smith (Deputy Administrator/Chief Engineer for Operations), Michael Randow (The Six-M Company), Jason Stolicny (Project Manager, D2), Jesse Free (Assistant District Engineer - Construction, District 4).

PURSUIT OF EXCELLENCE



MdQI Planning Award:

Project: US 219 from I-68 Interchange to Meyersdale, PA (PEL/NEPA Planning Study)
Study Cost: \$2.3 million
Firms: McCormick Taylor, Inc. - Baltimore, MD
Dewberry - Owings Mills, MD
Location: Garrett County

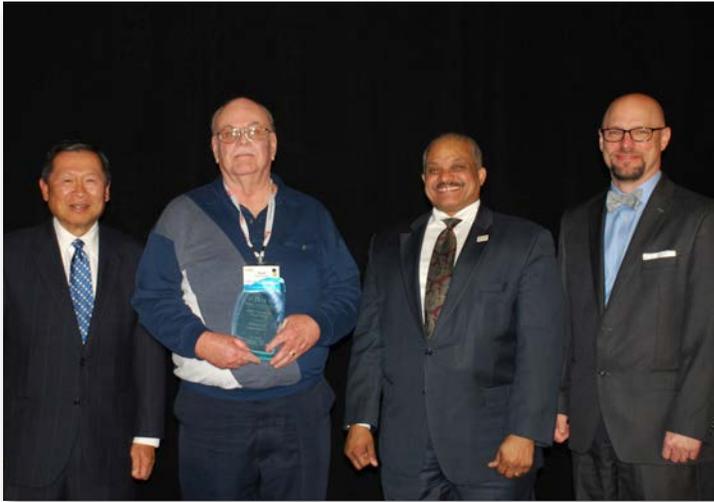
Dan Chang (MdQI Co-Chair), Earl Lewis (MDOT Deputy Secretary), Tim Smith (Deputy Administrator/Chief Engineer for Operations) Michael Baird (Design Project Manager, OHD), Rick Jenarine (Planning Project Manager, OPPE), Nimish Desai (Dewberry Consultants), Karen Arnold (Environmental Manager, OED), Bob Maimone (McCormick Taylor).



Partnering: Construction - Silver Award:

MD 180/MD 351 from Crestwood Boulevard to Structure No. 10149
Bid Cost: \$4.4 million

From Left to Right: Dan Cheng (MdQI Co-Chair), Matthew Burdette (Pleasants Paving), Earl Lewis (MDOT Deputy Secretary), Jolene Morris (Project Engineer, OOC), Tim Smith (Deputy Administrator/Chief Engineer for Operations).



Subcontractor Award:

Baldwin Line Construction Co. for MDOT
 SHA Project: New Market Community Safety
 Enhancement on MD 144
 Project Limits: MD 144 from West of Royal Oak
 Drive to Bye Alley
 Construction Cost: \$7 million
 Firm: Baldwin Line Construction Co. - Elkridge, MD
 PE and AE: David James (Project Engineer, OOC),
 Eddie Poffenberger (Area Engineer, District
 Location: Frederick County

From Left to Right: Dan Cheng (MdQi Co-Chair), David James (Project Engineer, OOC), Earl Lewis (MDOT Deputy Secretary), Tim Smith (Deputy Administrator/Chief Engineer for Operations).

THE OFFICE OF MATERIALS TECHNOLOGY WINS NATIONAL RECOGNITION FOR THEIR ASPHALT DENSITY SPECIFICATIONS!



In May 2018, the Federal Highway Administration commended the Office of Materials Technology (OMT) staff for their excellent work in developing and implementing the MDOT SHA Asphalt Density Specifications. The Federal Highway Administration selected these specifications as the best in the nation, and they will be used as best practice for other states!

From left to right, front to back: Eric Frempong (Deputy Director, OMT), Bill Wade (Assistant Division Administrator, FHWA), Sejal Barot (Director, OMT), Marshall Klinefelter (President, MAA), Azmat Hussain (Technology Services/ Planning Team Leader, FHWA), Jose Malheiro (D2/D7 Team Leader, OMT), Chandra Akisetty (Division Chief, OMT), Robert Voelkel (Assistant Division Chief, OMT), Geoffrey Hall (Division Chief, OMT).

COMPLETED PROJECTS

HIGHLIGHTS

DISTRICT 1 - EASTERN SHORE MARYLAND	
DORCHESTER COUNTY	AMOUNT
MD 16 Roundabout at Woods Road	\$3,231,499
SOMERSET COUNTY	AMOUNT
MD 413 Intersection improvements at Tulls Corner Road	\$2,211,000
WICOMICO COUNTY	AMOUNT
Resurfacing US 50 East bound from East of Walston Switch Road to West of White Richardson Road	\$1,617,000
Geometric improvements on US 50 Business from Ward Street to East of Main Street	\$1,983,334
Rehab of Eleven Bridges on US 13 Bypass (Salisbury Bypass)	\$28,510,000
WORCESTER COUNTY	AMOUNT
Resurfacing on MD 528 from 62 nd Street to 26 th Street	\$7,321,000
Widening of US 113 from Massey Branch to Five Branch Road - Phase 3	\$54,613



DISTRICT 2 - EASTERN SHORE MARYLAND

CAROLINE COUNTY	AMOUNT
Resurfacing MD 404 Business from 1 st Street to 9 th Street	\$848,536
CECIL COUNTY	AMOUNT
Sidewalks on MD 267 from Market Street to MD 7C	\$1,155,595
Geometric improvements on MD 213 at Frenchtown Road	\$2,778,000
MD 273 Roundabout at Appleton Road	\$2,561,000
Resurfacing on MD 279 from US 40 to Belle Hill Road	\$1,793,333
KENT COUNTY	AMOUNT
Bridge repairs on US 301 Northbound and Southbound over MD 290	\$3,574,000
QUEEN ANNE'S COUNTY	AMOUNT
Resurfacing on MD 19 from MD 300A to New Street and MD 19A from New Street to MD 19 in Church Hill	\$824,000
Resurfacing along US 301 Northbound from Greenspring Road to MD 213	\$2,782,000
Replacement of bridge decks along US 301 Northbound over MD 290 as well as US 301 Northbound over Red Lion Branch	\$5,914,000
TALBOT COUNTY	AMOUNT
New Bridge along MD 331 (Dover Road) over Choptank River	\$66,386,000



DISTRICT 3 - CENTRAL MARYLAND

MONTGOMERY COUNTY	AMOUNT
Resurface MD 190 from MD 614 to DC Line	\$3,379,000
Resurface I-495 from I-270 to Seminary Road Outerloop	\$7,149,000
Clean and paint 8 bridges on I-495 Beltway	\$2,895,000
Intersection Reconstruction: MD 355 at Cedar Lane	\$18,133,000
Intersection Reconstruction: MD 187 from South of Center Drive to West of Cedar Lane	\$4,634,000
Intersection Reconstruction: MD 97 at Randolph Road	\$83,634,000
Widen and resurface MD 198 Westbound at Riding Stable Road	\$1,252,000
Resurface MD 320 from MD 193 to MD 650	\$1,160,561
PRINCE GEORGE'S COUNTY	AMOUNT
Resurface MD 5 from Moores Road to Surratts Road	\$5,311,000
Resurface US 301 from South Osbourne Road to MD 381	\$1,581,000
MD 381 Bridge replacement over Timothy Branch	\$3,703,000
Community Safety and Enhancement on MD 4 from Forestville Road to MD 458	\$26,627,000
Resurface I-595 Westbound from South of Lottsford Vista Road to Ann Arundel County Line	\$10,407,000



DISTRICT 4 - CENTRAL MARYLAND

BALTIMORE COUNTY	AMOUNT
Resurfacing MD 122 (Security Blvd.) from I-695 to Baltimore City / County Line	\$5,605,000
Bridge replacement on MD 137 (Mount Carmel Road) over I-83 (Harrisburg Expressway)	\$8,923,000
Resurface US 1 from Howard / Baltimore County Line to South of CSX Railroad Tracks.	\$2,261,000
Resurface MD 140 from Millford Mill Road to Baltimore City / Baltimore County Line	\$1,790,000
Resurface I-95 from Howard County Line to US 1 (Southwestern Blvd.)	\$7,678,447
HARFORD COUNTY	AMOUNT
Capacity improvements on MD 22 at MD 462	\$20,100,000
Intersection capacity improvements on MD 22 at Beards Hill Road	\$16,603,000
Resurfacing on MD 7 from MD 24 to Abingdon Road	\$1,836,808



DISTRICT 5 - CENTRAL MARYLAND	
ANNE ARUNDEL COUNTY	AMOUNT
Replacement of Median Barrier and Lane Reconfiguration of Bridge on US 50 over Severn River	\$26,094,000
DISTRICT 7 - CENTRAL MARYLAND	
CARROLL COUNTY	AMOUNT
Replacement of Bridge on MD 496 over Big Pipe Creek	\$5,784,000
Geometric improvements on MD 482 at Gorsuch and Cape Horn Road	\$2,498,024
HOWARD COUNTY	AMOUNT
Resurfacing on US 40 Eastbound, east of US 29 to the Baltimore County Line	\$2,056,317
Geometric improvements on US 29 Northbound and MD 175	\$1,695,826
MD 97 at Burntwoods Road Intersection improvements	\$3,237,680
Construct Noise Abatement on I-95 Northbound from Montgomery Road Overpass to I-895 Interchange	\$13,281,000



DISTRICT 5 - SOUTHERN MARYLAND	
CALVERT COUNTY	AMOUNT
Resurface of MD 778 (Old Solomons Island Road) between MD 2 and the Anne Arundel County line (1 mile)	\$3,500,000
CHARLES COUNTY	AMOUNT
Bridge replacement on MD 234 (Budds Creek Road) over Gilbert Swamp	\$6,431,000
Deck replacement for Bridge on MD 6 over Zekiah Swamp	\$2,678,408
Bridge replacement on MD 224 over Branch of Thorn Gut	\$1,576,530
ST. MARY'S COUNTY	AMOUNT
Construct Roundabout on MD 234 at MD 242	\$3,599,889
DISTRICT 6 - WESTERN MARYLAND	
ALLEGANY COUNTY	AMOUNT
Replacement of Bridge on MD 47 (Barrelville Road) over North Branch	\$2,203,052.24
Geometric improvements on MD 935 at Railroad Street	\$849,682
GARRETT COUNTY	AMOUNT
Replacement of Culvert with Bridge over Branch of the Youghiogheny River	\$1,189,576
WASHINGTON COUNTY	AMOUNT
Resurfacing I-70 from East of MD 615 to East of MD 56	\$2,760,269
Resurfacing US 68 from Allegany County Line to Mountain Road Bridge	\$2,675,458
DISTRICT 7 - WESTERN MARYLAND	
FREDERICK COUNTY	AMOUNT
Sidewalk upgrades on MD 17 from West B Street to Center Street in Brunswick	\$977,580
Resurfacing on MD 26 from West South Street to MD 31	\$1,117,453
Urban Reconstruction Program on MD 140 from Creamery Road to Timbermill Run	\$2,648,239

MDOT SHA CARES



MARYLAND CHARITIES

The power of MDOT SHA is in our commitment to public service both on and off the job. We touch the lives of our fellow Marylanders, communities, and even our employees

every single day. This dedication is easily seen with the enthusiastic support of the Maryland Charity Campaign (MCC), an annual event that runs from October to mid-December. Pledging donations to support hundreds of vetted charities and non-profit organizations, state employees have the opportunity to give back. In addition to personal donations via payroll deduction or one-time contributions, MDOT SHA raised extra funds through events such as cook-offs, craft shows, walking taco sales, a silent auction and a roving dessert cart. In total, MDOT SHA raised more than \$51,000.

“It was heartwarming to see the energy, creativity, engagement, and the sincere desire to help people in need, improve living conditions for children, elderly,



homeless, and animals, support the environment, art and education, and simply help fellow citizens who are less fortunate than we are,” said Maryland Charities Coordinator Andrea Dufrenne. “This experience also provides awareness of the needs of people not only in Maryland, but internationally and globally.”



FOOD DRIVE

MDOT SHA led Operation Orange, the MDOT food drive across all transportation units. Together the MDOT TBUs contributed to the fight to end hunger by collecting nonperishable food items at sites throughout the State and by accepting donations online via a virtual food drive site during the months of September and October. This year, MDOT raised a total of more than 30,000 pounds of food for the Maryland Food Bank!

As part of the Governor’s Day to Serve in the fall, representatives from across MDOT joined together and volunteered at the Maryland Food Bank, stuffing boxes of foods for dissemination across central Maryland.



Every MDOT SHA District Office and Maintenance Shop, the Hanover Complex and Headquarters opened doors to receive donations from customers, and also collected from employees. Several offices held “stuff a

truck” events together with other agencies. This year MDOT SHA also introduced the “Play with Your Food” food construction contest, in which structures constructed from donated food were judged.

Operation Orange food drive allows us to provide meals to our neighbors throughout the state. The food collected will provide over 25,000 meals to families across Maryland.

TRAC

MDOT SHA’s reach extends beyond roadways, and the success of Maryland’s TRAnsportation and Civil Engineering Program (TRAC) is further proof of that. The National Transportation and Civil Engineering Program (TRAC) provides high school students with the opportunity to explore the dynamic, problem-solving world of Science, Technology, Engineering and Mathematics (STEM). A record six Maryland schools now incorporate the TRAC program including Chesapeake Math and IT North Middle School and High School, Chesapeake Math and IT South Middle School and High School, Chesapeake Science Point, Hereford High School, Patterson High School, and Mt. Washington High School.

The hands-on program gives middle and high school students a head start on transportation and engineering fields. In 2018, TRAC’s inaugural year, there were 24 bridge builder teams that submitted to compete in the American Association of State Highway Transportation Officials (AASHTO) Spring

Meeting 2018 Bridge Builder Competition. One of the founding teams consisting of three members of the Chesapeake Math and IT (CMIT) High School senior class placed as a finalist and competed at the national level, representing Maryland in Tennessee.



WHERE CAN MDOT SHA TAKE YOU?

MDOT SHA is making great progress among great change; the organization is filled with amazing professionals of all backgrounds. We’re marching forward and moving fast with innovative and transformative solutions across the system and delivering on a customer experience to all Marylanders.

The daily lives of Marylanders are our mission at MDOT and SHA. We’ll continue to deliver large projects and build bridges and leverage technology to deliver transformative solutions. But we also have to always think about the small things. We look at the system as a whole and we deliver tactical solutions.

That is our charge. That is our challenge. We are driving change and delivering for Maryland customers.

Larry Hogan
Governor

Boyd K. Rutherford
Lieutenant Governor

Pete K. Rahn
MDOT Secretary

Greg Slater
MDOT SHA Administrator

Maryland Department of Transportation
State Highway Administration

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