



# *MDOT* **EXCELLERATOR**

**Performance Management System**

Quarterly Report  
January 2017



**Final**

Maryland Department of Transportation



# State of Maryland



# A Message From the Governor



“Our administration is committed to developing innovative solutions that deliver what Marylanders want – an affordable and reliable transportation system. By implementing a comprehensive program of accountability and continual improvements, we will deliver a better transportation system for the citizens of Maryland.”

“This is another step our administration is taking to Change Maryland for the Better!”

– **Larry Hogan**, *Governor*



The Maryland Department of Transportation and its Transportation Business Units proudly present the official mission statement.



## Maryland Department of Transportation

**“The Maryland Department of Transportation is a customer-driven leader that delivers safe, sustainable, intelligent, and exceptional transportation solutions in order to connect our customers to life’s opportunities.”**

# A Message From the Secretary

My Fellow Marylanders,

I am pleased to present the Maryland Department of Transportation (MDOT) Excellerator Performance Management System. I have been a longtime proponent of performance measures as a critical ingredient which drives organizations to exceptional standards to meet the transportation demands of our customers. At MDOT, we have embarked on a dedicated journey of creating performance measures that are important to all who live in and travel throughout the State of Maryland.

MDOT, and its Transportation Business Units (TBUs), created a single focused Mission Statement, which is the guiding light for all of our transportation products and services. We are wholeheartedly committed to being driven by the needs of our customers and to exceed their expectations. Whether our customers fly out of the Baltimore/Washington International Thurgood Marshall Airport, take a cruise out of the Port of Baltimore, ride one of our buses or rail lines, register their vehicles, or travel our highways and bridges, we all stand together as MDOT.

Our Excellerator program is comprised of 10 tangible results. Those results, which are critical components for the organization and will drive our daily business decisions. How we achieve those results will be an organization-wide process of developing measures and strategies to achieve the optimum level of performance. The public we serve is able to see the results of our performance every quarter. This program is a living, evolving performance process that is in a constant state of evaluation, analysis and action. Some quarters may be better than others, but with the appropriate measures in place, we will have a constant finger on the pulse of the products and services we deliver to the citizens of Maryland. Whether we are being a good neighbor or facilitating economic opportunities within our State, we, MDOT, are working together every day to improve our performance and strive to reach exceptional customer service.

We thank you for this opportunity to share our initiative and are excited to embark upon a program of constant progress towards outstanding results.



**Pete K. Rahn**  
*Secretary*



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2.10	Relationship Between Procurement Competition and Cost	Quarterly	Laura Getty, MTA
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2.13	Response to Fraud Hotline Complaints, including Resposne Time and Effective Resolution	Quarterly	Steve Watson, TSO
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<b>Tangible Result # 3: Provide a Safe and Secure Transportation Infrastructure</b>			<b>Sarah Clifford, MDTA</b>
3.1	Number of Crimes Against Persons and Property Committed at MDOT Facilities	Quarterly	Bud Frank, TSO
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<b>Tangible Result # 4: Deliver Transportation Solutions and Services of Great Value</b>			<b>Jason Ridgway, SHA</b>
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	4.4i - Farebox Recovery Ratio	Annually (Jan.)	Wayne Schuster, MAA
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<b>Tangible Result # 5: Provide An Efficient, Well Connected Transportation Experience</b>			<b>Phil Sullivan, MTA</b>
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	5.1b - Average Annual Truck Turn Time Per Container Transaction	Annually (Jan.)	Dave Thomas, MPA
	5.1c - Average Wait Time MVA	Quarterly	Dave Thomas, MPA
	5.1d - On Time Performance MTA & MAA	Quarterly	Robert Pond, MTA
	5.1e - Planning Time Index for Highway Travel	Annually (April)	John O'Neill, MDTA
5.2	Restoring Transportation Services		
	5.2a - Restoring Transportation Services - Average Time to Restore Normal Operations After Disruptions	Annually (April)	Glenn McLaughlin, SHA
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5.3	Percent of Transportation Services and Products Provided Through Alternate Service Delivery Methods	Semi-Annually (April & Oct.)	Negash Assefa, MVA
5.4	Functionality of Real-Time Information Systems (RTIS)		
	5.4a - Percent of Functional Real-Time Information Systems Provided	Quarterly	Ralign Wells, MAA
	5.4b - Customer Satisfaction with the Accuracy of Real-Time Information Systems Provided	Annually (July)	Ralign Wells, MAA
<b>Tangible Result # 6: Communicate Effectively With Our Customers</b>			<b>Diane Langhorne, TSO</b>
6.1	Communicate Effectively Utilizing Social Media		
	6.1a - Social Reach	Quarterly	Katie Bennett, MDTA
	6.1b - Social Engagement	Quarterly	Richard Scher, MPA
6.2	Satisfaction with Communication at Public Meetings	Quarterly	Sharon Rutzebeck, MVA
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	6.3a - Number of News Stories Generated from Major Releases	Quarterly	Annette Fisher, MAA

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	6.3b - Earned Media Value of Print and Broadcast Coverage Generated by News Releases	Quarterly	Valerie Burnette Edgar, SHA
	6.3c - Earned Media Value of Print and Broadcast Coverage Generated by News Releases	Quarterly	Valerie Burnette Edgar, SHA
6.4	Communicate Effectively to Customers with English Language Barriers at Public Meetings	Quarterly	Lisa Dickerson, TSO
6.5	News Customers Can Use - Proactive Media Stories	Quarterly	Annette Fisher, MAA
<b>Tangible Result # 7: Be Fair and Reasonable To Our Partners</b>			<b>Wanda Dade, SHA</b>
7.1	Percentage of Minority Business Enterprise (MBE) Participation Achieved by each Transportation Business Unit	Quarterly	Angela Martin, MAA
7.2	Number and Percent of Contracts Awarded to MBE Firms as the Prime Contractor	Quarterly	Angela Martin, MAA
7.3	Percent of Payments Awarded to Small Business Reserve (SBR) Contracts	Quarterly	Wonza Spann-Nicholas, MPA
7.4	Percent of Veteran Owned Small Business Enterprise (VSBE) Participation	Annually (Jan.)	Natalie Grasso, MVA
7.5	Level of Satisfaction of Our Business Partners	Quarterly	Donna Dicerbo, MDTA
7.6	Number and Percent of Invoices Properly Paid to Our Partners in Compliance with State Requirements	Quarterly	David Lynch, MTA
7.7	Number of MDOT Procurement Protests Filed and Percent of Protests Upheld by the Board of Contract Appeals	Quarterly	Mike Zimmerman, TSO
<b>Tangible Result # 8: Be a Good Neighbor</b>			<b>Simon Taylor, MAA</b>
8.1	Percent of MDOT Facilities that Meet or Exceed our Neighbor's Expectations	Annually (April)	Anthony Crawford, SHA Tim Cooke, MDTA John Trueschler, TSO
8.2	Level of Satisfaction with Educational/Civic Outreach Efforts with our Neighbors		
	8.2a - Number of Educational/Civic Outreach Efforts with our Neighbors	Quarterly	Michael Phennicie, MAA Kathy Broadwater, MPA
	8.2b - Satisfaction with the Educational/Civic Outreach Efforts	Annually (April)	Michael Phennicie, MAA
8.3	Percent of MDOT Facilities that are ADA Compliant	Annually (April)	Jim Hoover, MTA Terri Whitehead, MVA
<b>Tangible Result # 9: Be a Good Steward of Our Environment</b>			<b>Dorothy Morrison, TSO</b>
9.1	Water Quality Treatment to Protect and Restore the Chesapeake Bay	Annually (Oct.)	Sonal Ram, SHA
9.2	Fuel Efficiency		
	9.2a - Miles Per Gallon (PM Retained)	Annually (April)	Paul Truntich, MDTA

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	9.2b - Total Gallons Consumed	Annually (Oct.)	Paul Truntich, MDTA
9.3	Percent of Maryland Recycling Act Materials Recycled	Annually (April)	Hargurpreet Singh, MVA
9.4	Recycled/Reused Materials from Maintenance Activities and Construction/Demolition Projects	Annually (April)	Barbara McMahon, MPA
9.5	Compliance with Environmental Requirements	Annually (Oct.)	Robin Bowie, MAA
9.6	Environmental Impacts and Community Enhancements	Quarterly	Robert Frazier, MTA
9.7	Energy Consumption	Semi-Annually (April and Oct.)	Laura Rogers, TSO
<b>Tangible Result # 10: Facilitate Economic Opportunity in Maryland</b>			<b>Jim Dwyer, MPA</b>
10.1	Economic Return from Transportation Investment	Annually (Jan.)	John Thomas, SHA
10.2	National Ranking of Maryland's Transportation Infrastructure	Annually (Oct.)	John Thomas, SHA
10.3	Freight Mobility		
	10.3a - Freight Analysis Framework (FAF) Tonnage and Value of Freight	Annually (April)	Juan Torrico, MTA
	10.3b - Port of Baltimore Total International Cargo Tonnage Port-Wide, Market Share and Rankings	Quarterly	Juan Torrico, MTA
	10.3c - MPA Total General Cargo Tonnage including Containers, Autos, RoRos and Imported Forest Product	Quarterly	Juan Torrico, MTA
10.4	Number and Percentage of Bridges on the State System that are Weight-Posted	Annually (July)	Rafael Espinoza, MDTA
10.5	Change in Market Access due to Improvements in the Transportation Network	Annually (April)	Corey Stottlemeyer, TSO
10.6	Change in Productivity due to Improvements in the Transportation Network	Annually (April)	Corey Stottlemeyer, TSO
10.7	Total User Cost Savings for the Traveling Public Due to Congestion Management	Annually (Jan.)	John Thomas, SHA
10.8	Percent of Vehicles Miles Traveled (VMT) in Congested Conditions on Maryland Freeways and Arterials in the AM/PM Peak Hours	Annually (Jan.)	John Thomas, SHA
10.9	Market Share		
	10.9a – Percent of Nonstop Markets Served Relative to Benchmark Airports	Quarterly	Jack Cahalan, MAA
	10.9b - Martin State Airport's Regional Market Share	Quarterly	Jack Cahalan, MAA
	10.9c - Number of Passengers and Departing Flights Relative to Benchmark Airports	Quarterly	Jack Cahalan, MAA
	10.9d - Mid-Atlantic International Cruise Market Share	Quarterly	Jack Cahalan, MAA
10.10	Percent of Roadway Access Permits Issued within 21 Days or Less	Annually (Jan.)	Del Adams, TSO

## TANGIBLE RESULT #1

# Provide Exceptional Customer Service



Every MDOT employee is responsible for delivering exceptional customer service by providing our customers with respectful, timely and knowledgeable responses to all inquiries and interactions.

### RESULT DRIVER:

Leslie Dews

*Motor Vehicle Administration (MVA)*

# Provide Exceptional Customer Service

## TANGIBLE RESULT DRIVER:

Leslie Dews

*Motor Vehicle Administration (MVA)*

## PERFORMANCE MEASURE DRIVER:

Sean Adgeron

*Maryland Transit Administration (MTA)*

## PURPOSE OF MEASURE:

To track MDOT's progress towards its mission of providing exceptional customer service.

## FREQUENCY:

Annually (in April)

## DATA COLLECTION METHODOLOGY:

Data is collected through a standardized survey of randomly selected Marylanders.

## NATIONAL BENCHMARK:

American Customer Service Index

## PERFORMANCE MEASURE 1.1

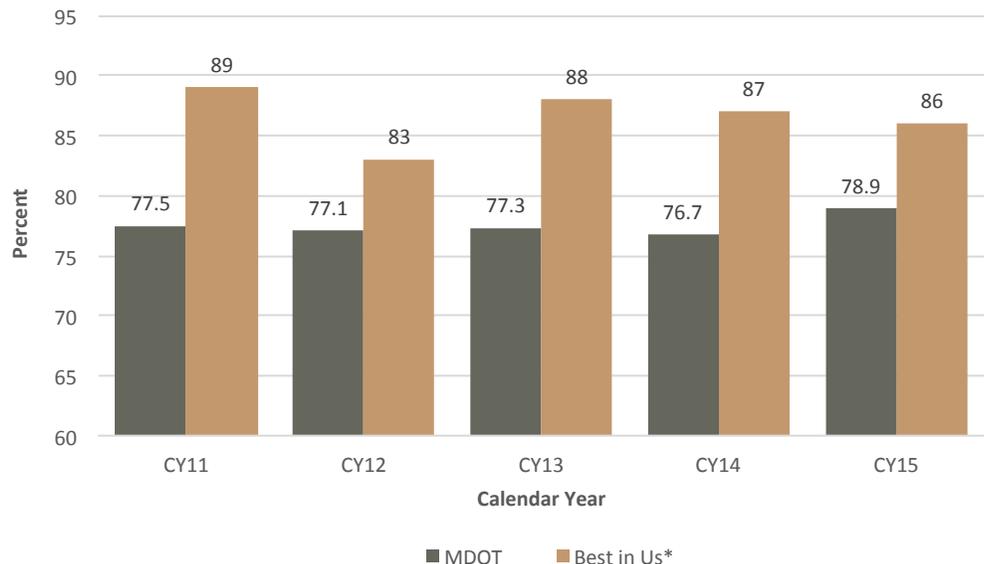
### Percent of Overall Customer Satisfaction

Overall customer satisfaction plays an important role at the MDOT) The information gained from conducting the customer satisfaction research provides insight we need to make informed decisions that meet or exceed customer expectations.

Over the past few years we have been conducting customer satisfaction surveys at the business units (SHA, MVA, MTA, etc.). Specifically, data from the various surveys was normalized and then averaged to determine overall MDOT customer satisfaction. Overall MDOT's customer satisfaction has remained relatively consistent at approximately 77percent. Increasing customer satisfaction is a top priority as MDOT continually strives to tailor delivery of products and services to its customers.

MDOT is creating a new survey to capture consistent and complete data across all TBUs to measure overall satisfaction.

Percent of Overall MDOT Customer Satisfaction



# Provide Exceptional Customer Service

## TANGIBLE RESULT DRIVER:

Leslie Dews

*Motor Vehicle Administration (MVA)*

## PERFORMANCE MEASURE DRIVER:

Patrick Corcoran

*Maryland Aviation Administration (MAA)*

## PURPOSE OF MEASURE:

To track responsiveness to customer inquiries.

## FREQUENCY:

Quarterly (Data is Monthly)

## DATA COLLECTION METHODOLOGY:

MDOT IQ system.

## NATIONAL BENCHMARK:

10 days (MDOT established benchmark)

## PERFORMANCE MEASURE 1.2A

### Responsiveness to MDOT Customer Correspondence: Average Number of Days for Correspondence in the MDOT IQ System

The MDOT is committed to providing customers a timely response to all correspondence. Accordingly, MDOT policy requires responses to incoming customer correspondence be completed and signed by the Secretary within 30 days of receipt.

Currently, MDOT uses Internet Quorum (IQ) software to process customer and other internal and external correspondence submitted to the Secretary's Office. Letters tracked in IQ may originate in MDOT, respond to correspondence sent directly to MDOT or are assigned by the Governor's office for an MDOT response.

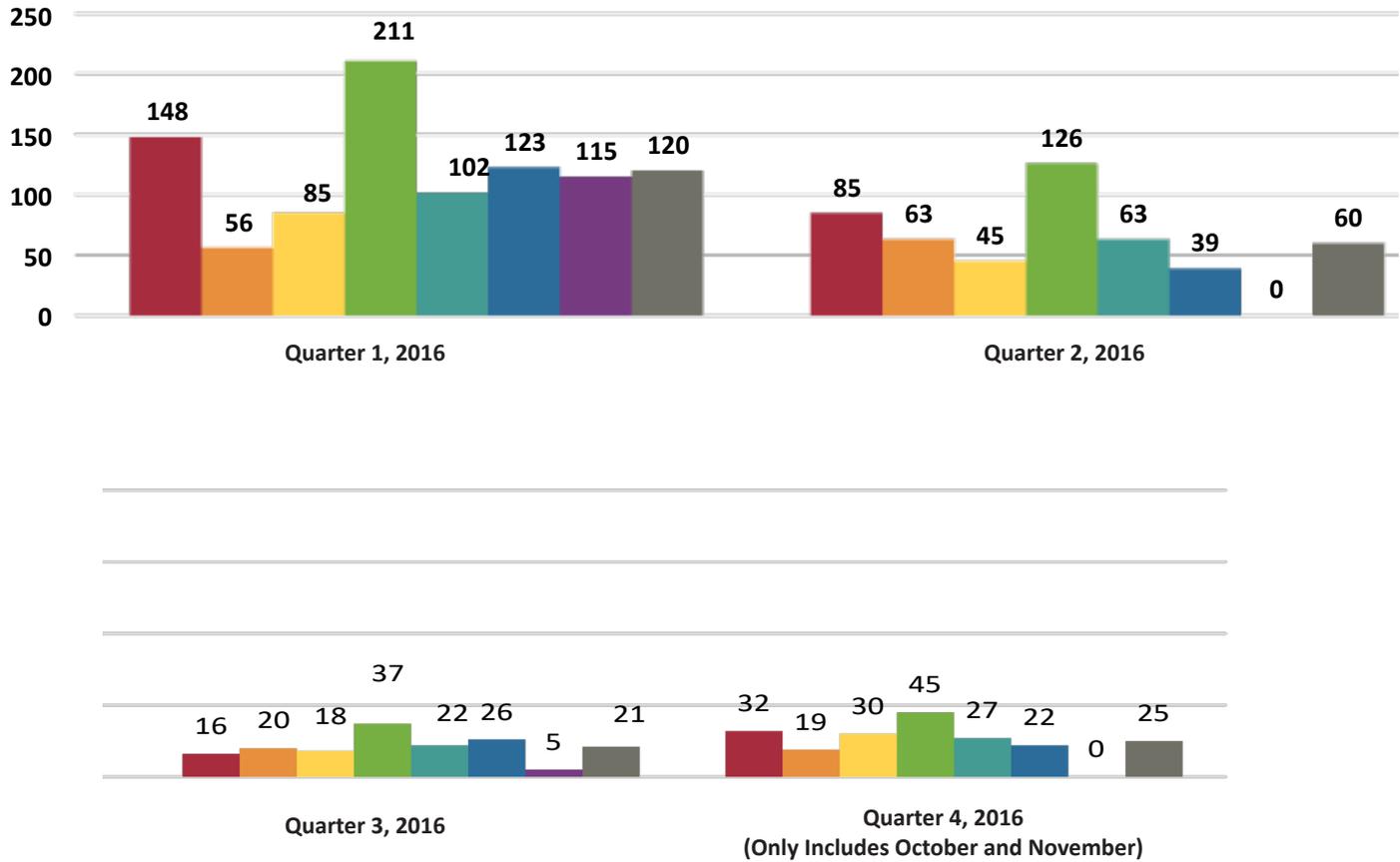
As demonstrated in the following chart, MDOT has made considerable improvement in responsiveness to customer correspondence since January 2016. MDOT actively engages Correspondence Managers and other accountable staff across TBUs to identify opportunities for improvement and to enhance our ability to capture and report on all customer correspondence. Information derived from this process is being used to develop a more comprehensive approach to customer correspondence management to ensure that, regardless of origin, all customer correspondence is tracked appropriately and customers receive accurate, reliable and timely responses from MDOT to all correspondence.

# Provide Exceptional Customer Service

## PERFORMANCE MEASURE 1.2A

Responsiveness to MDOT Customer Correspondence: Average Number of Days for Correspondence in the MDOT IQ System

**Average Number of Days for Correspondence in the MDOT IQ System**  
 (Currently, data reflects only MDOT correspondence assigned by the Governor's office.)



Previous Q3 data presented in October  
 only included July and August

■ TSO ■ SHA ■ MDTA ■ MTA ■ MVA ■ MAA ■ MPA ■ MDOT Wide

# Provide Exceptional Customer Service

## TANGIBLE RESULT DRIVER:

Leslie Dews

*Motor Vehicle Administration (MVA)*

## PERFORMANCE MEASURE DRIVER:

Richard Powers

*Maryland Port Administration (MPA)*

## PURPOSE OF MEASURE:

To track the rate of first contact resolution to MDOT customer correspondence to ensure responsiveness to our customer needs.

## FREQUENCY:

Quarterly (Data is Monthly)

## DATA COLLECTION METHODOLOGY:

MDOT IQ system.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 1.2B

### Responsiveness to MDOT Customer Correspondence: Percent of First Contact Resolution

MDOT is responsible for providing knowledgeable and timely responses to all customer correspondence. Exceptional customer service ensures that all customer requests are resolved upon initial engagement.

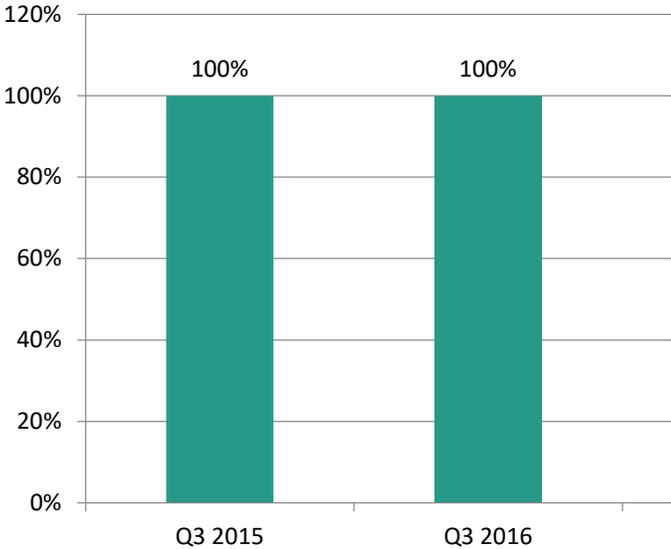
As reported previously, the IQ system is not configured to capture data to first contact resolution. Currently, the MVA and MTA are the only TBUs with reportable data for this measure. As shown in the following charts, during this reporting period, the MVA has no repeat contacts and MTA has made significant strides in customer contacts closed out on the first day of receipt.

MDOT continues to work on the development of a comprehensive approach for managing customer correspondence across TBUs. As reported previously, a review of existing systems and processes for correspondence management is underway. Ultimately, the solution will ensure that the organization provides exceptional service to our customers in a manner that is responsive, timely, consistent and reflective of the varying means of customer engagement.

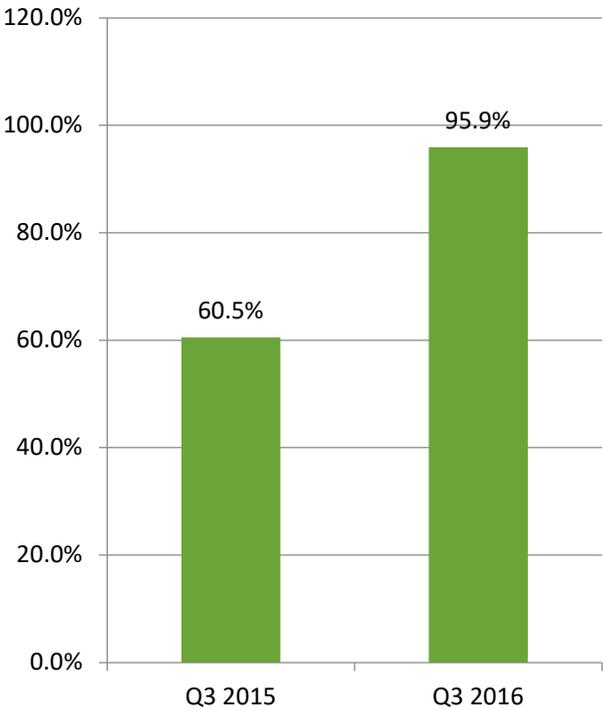
# Provide Exceptional Customer Service



**MVA Percent of First Contact Resolution**



**MTA First Contact Resolution**



# Provide Exceptional Customer Service

## TANGIBLE RESULT DRIVER:

Leslie Dews

Motor Vehicle Administration (MVA)

## PERFORMANCE MEASURE DRIVER:

Darol Smith

Maryland Transportation Authority (MDTA)

## PURPOSE OF MEASURE:

To identify the percentage of customers not connecting or speaking with call centers resulting from not receiving goods or services from MDOT.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Database metrics provided by TBUs. Calculated formula abandoned calls divided by total inbound calls – in percent.

## NATIONAL BENCHMARK:

Eight percent average sampled industry leader (no national industry standard available)

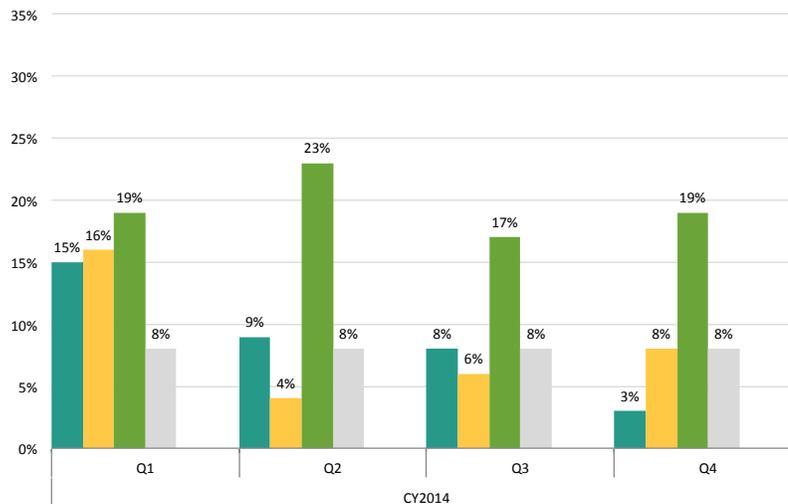
## PERFORMANCE MEASURE 1.3A

### Customer Satisfaction with Receiving Goods and Services: Percent of Abandoned Calls at Call Centers

MDOT offers customers various ways to interact with the organization based on their preferences. Call centers across MDOT's TBUs represent one contact point for customers to interact with MDOT to obtain information, resolve issues and complaints, and conduct other business. The longer the time customers have to wait before being connected to a call center agent, the higher the abandon rate. The inability of customers to connect with MDOT representatives negatively impacts their level of satisfaction with the goods and services received from the organization.

The combined MDOT CY 2016 third quarter (Q3) results of 13% and two months of fourth quarter (Q4) results of 10% remains higher than the desired benchmark of 8% but is trending favorably. The performance of Q3 and Q4 shows a combined improvement from previous quarters. One TBU made a substantial improvement that influenced the combined results as depicted on the chart below. This trend is continuing by targeted process improvements along with other changes by individual TBUs to enhance the performance in of call center operations.

Percent of Abandoned Calls at Call Centers

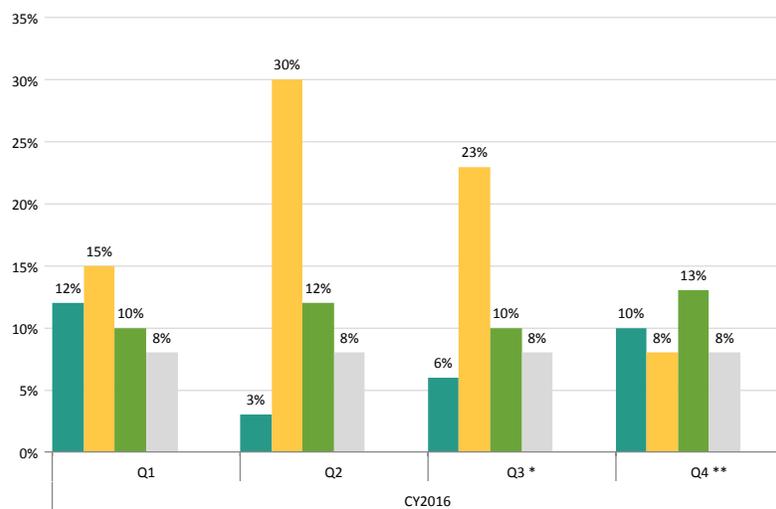
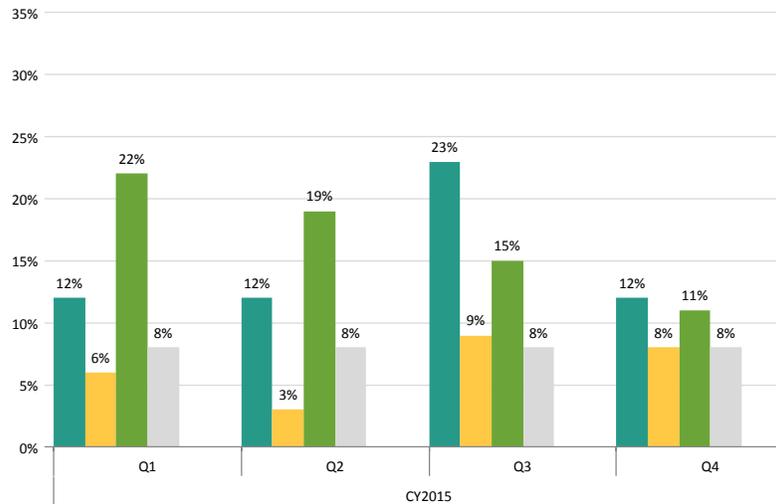


# Provide Exceptional Customer Service

## PERFORMANCE MEASURE 1.3A

Customer Satisfaction with Receiving Goods and Services: Percent of Abandoned Calls at Call Centers

Percent of Abandoned Calls at Call Centers



■ MVA ■ MDTA ■ MTA ■ Standard \* Denote final month adjustment \*\* Denote 2 months of data

# Provide Exceptional Customer Service

## TANGIBLE RESULT DRIVER:

Leslie Dews

*Motor Vehicle Administration (MVA)*

## PERFORMANCE MEASURE DRIVER:

Darol Smith

*Maryland Transportation Authority (MDTA)*

## PURPOSE OF MEASURE:

To collect and evaluate the time it takes the average customer to wait before speaking with the call center to answer phone inquiries.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Database metrics provided by TBUs. Average amount of time caller waits.

## NATIONAL BENCHMARK:

60 seconds average sampled industry leaders (no national industry standards available)

## PERFORMANCE MEASURE 1.3B

### Customer Satisfaction with Receiving Goods and Services: Average Call Wait Times at Call Centers

Providing consistent and responsive service to customers contacting MDOT call centers is a top priority for the organization. Customers expect to reach representatives within a reasonable amount of time when contacting call centers. The length of time they wait to speak to a representative often shapes their perception of MDOT's customer service and their level of satisfaction. The longer customers wait to speak to a call center representative, the more dissatisfied they become with the goods and services obtained.

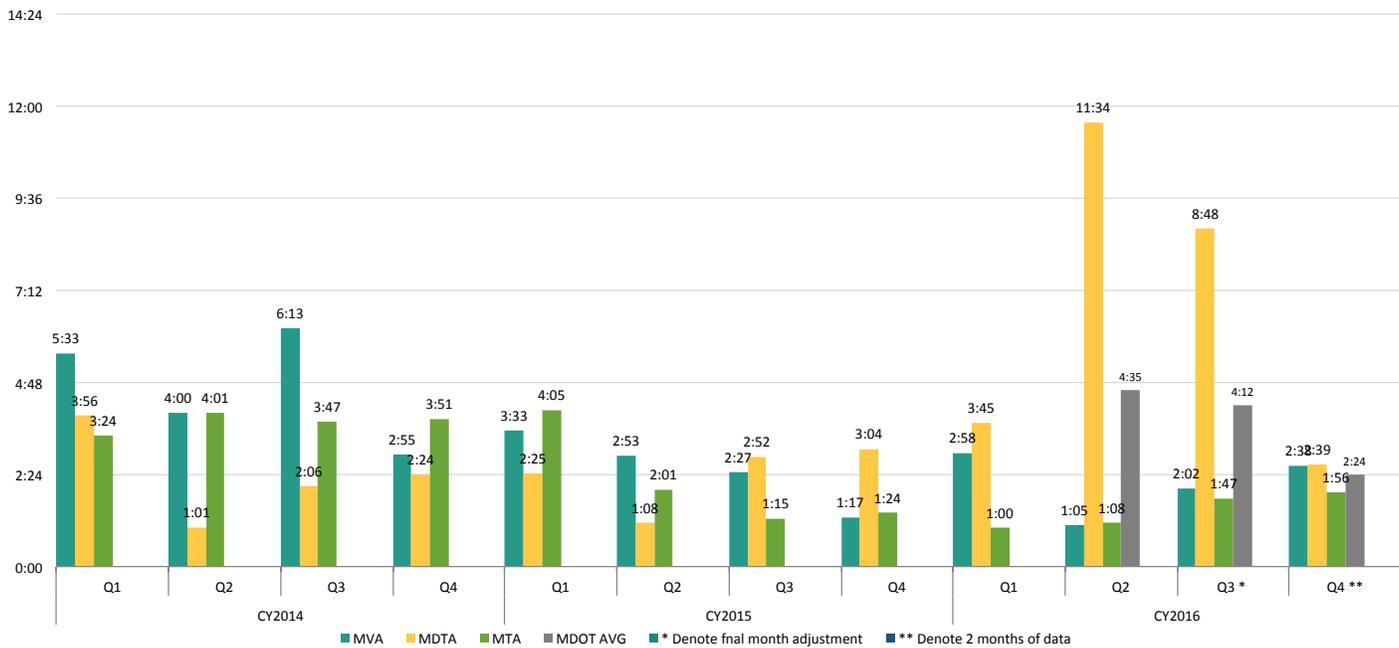
The average wait time for customers contacting the call center during the CY 2016 third quarter (Q3) was 4:12 minutes and 2:24 minutes for the first two months of the fourth quarter (Q4). The results are significantly higher than the benchmark of 60 seconds, however, MDOT continues to make improvements in this area. Collectively, TBU call centers have engaged in the development and implementation of strategies and process improvements to ensure better service our customers. These efforts will continue to maintain progress towards the achievement of the 60 second benchmark for customer wait time.

# Provide Exceptional Customer Service

## PERFORMANCE MEASURE 1.3B

Customer Satisfaction with Receiving Goods and Services: Average Call Wait Times at Call Centers

Average Call Wait Times at Call Centers



# Provide Exceptional Customer Service

**TANGIBLE RESULT DRIVER:**

Leslie Dews

Motor Vehicle Administration (MVA)

**PERFORMANCE MEASURE DRIVER:**

Darol Smith

Maryland Transportation Authority (MDTA)

**PURPOSE OF MEASURE:**

To assess customer satisfaction with call centers in resolving call inquiries.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

Phone survey of call center customers.

**NATIONAL BENCHMARK:**

82 percent average sampled industry Leaders (no national industry standard available)

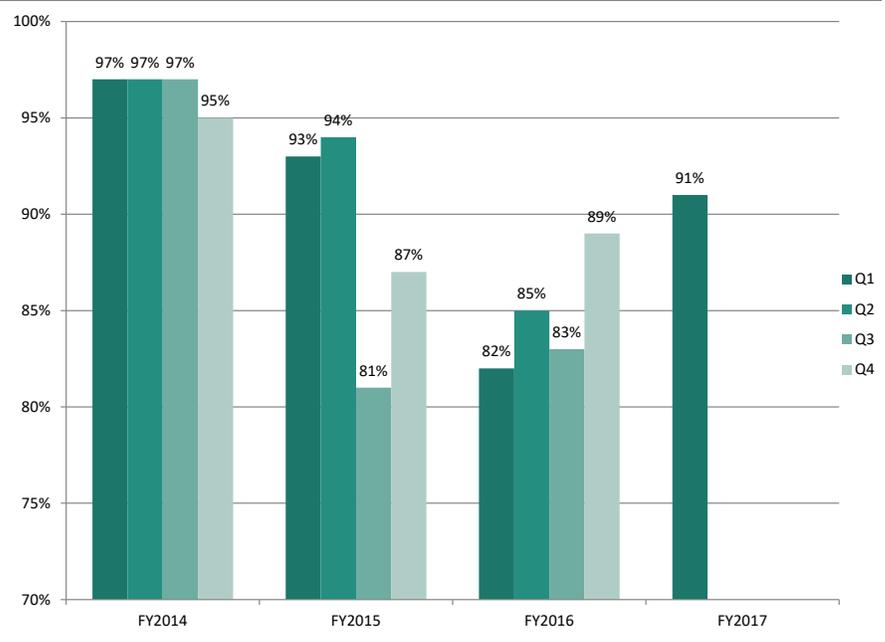
## PERFORMANCE MEASURE 1.3C

### Customer Satisfaction with Receiving Goods and Services: Level of Satisfaction with Resolving Call Inquiries at Call Centers

The level of satisfaction with resolving call inquiries is an indicator of whether MDOT is meeting customers' expectations. MVA is currently the only call center that has a data collection mechanism in place for this performance measure.

Results from FY 2016 fourth quarter (Q4) demonstrate a favorable trend for MVA with a 91 percent customer satisfaction compared to a benchmark of 82 percent. FY 2016 Q3 and Q4 data shows a trend back to prior TBU achievement levels that are better than the benchmark in place today. Current attainment results above the established benchmark indicate the need to reevaluate the standard to ensure emphasis on exceptional customer service as MDOT continues to develop a mechanism to collect data for this performance measure for all TBU call center operations.

**MVA Level of Satisfaction with Resolving Call Inquires**



# Provide Exceptional Customer Service

## TANGIBLE RESULT DRIVER:

Leslie Dews

*Motor Vehicle Administration (MVA)*

## PERFORMANCE MEASURE DRIVER:

Sabrina Bass

*The Secretary's Office (TSO)*

## PURPOSE OF MEASURE:

To better determine how satisfied MDOT customers are when interacting with MDOT representatives.

## FREQUENCY:

Annually (in April)

## DATA COLLECTION METHODOLOGY:

Data is collected through a survey design utilizing an on-site, in-person intercept method, complemented by online surveys.

## NATIONAL BENCHMARK:

Highest American Customer Satisfaction Index (ACSI) rate -86 percent.

## PERFORMANCE MEASURE 1.4

### Customer Satisfaction with Interactions with MDOT Representatives

As a multifaceted transportation organization, MDOT plays a significant role in the lives of its customers. MDOT employees interact with a diverse customer base on a daily basis and are expected to provide a level of customer service that is responsive, timely and delivered in a courteous and professional manner. Those interactions shape customer satisfaction and overall perception of MDOT.

Given the vast nature of the MDOT organization, our representatives interact with their customers using a variety of methods (e.g., in person, phone, email, etc.). Regardless of the method, consistent delivery of service by competent and courteous MDOT representatives is essential for a positive customer experience.

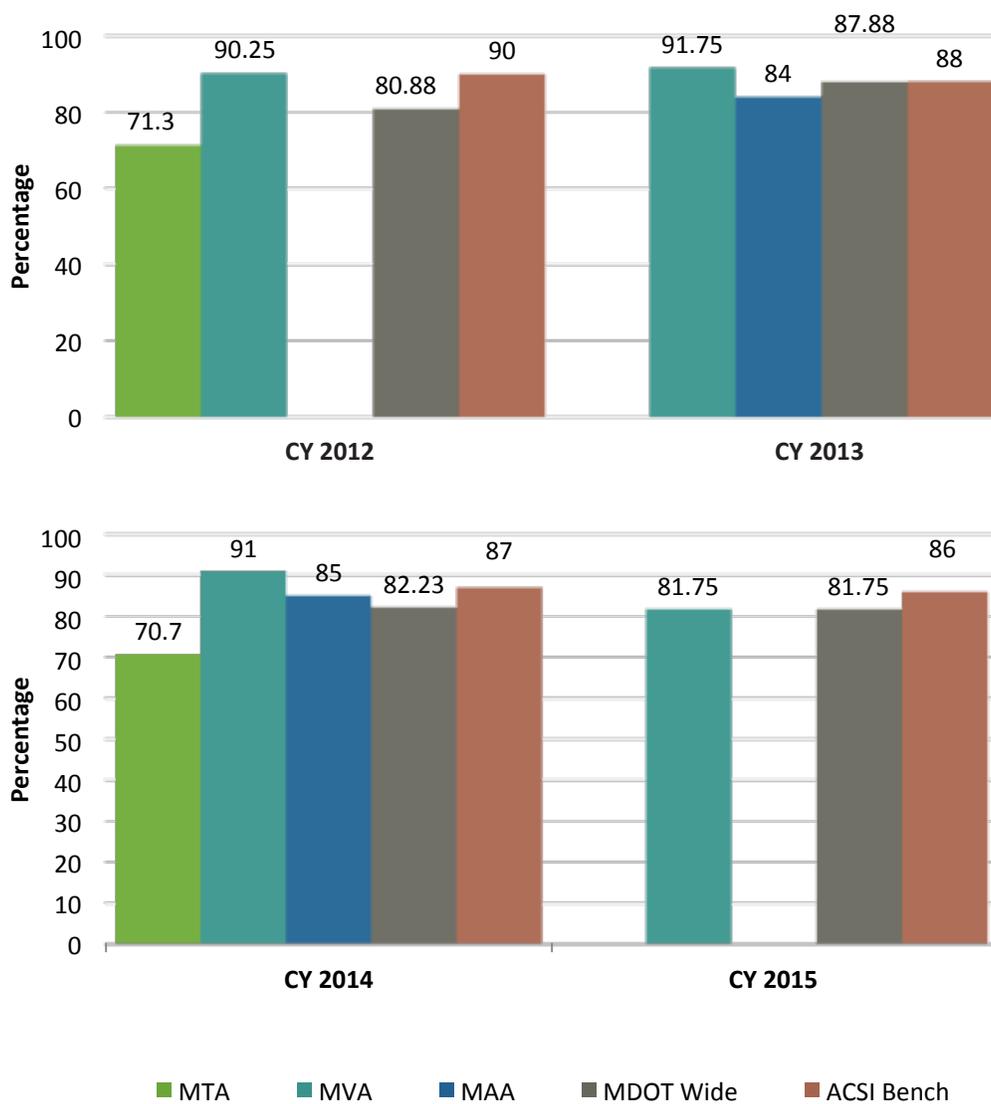
Current survey data from four business units indicate that on average, 75 percent of MDOT customers report that they were satisfied with their interactions. Data from five TBUs indicate on average, 80 percent of our customers report that they were treated professionally and respectfully by MDOT employees. These achievements fall short of the highest corporate national ACSI average of 86 percent and demonstrate the need to improve the level and consistency of customer services provided by MDOT employees across all TBUs.

# Provide Exceptional Customer Service

## PERFORMANCE MEASURE 1.4

### Customer Satisfaction with Interactions with MDOT Representatives

Level of Satisfaction with Interactions with MDOT Representatives



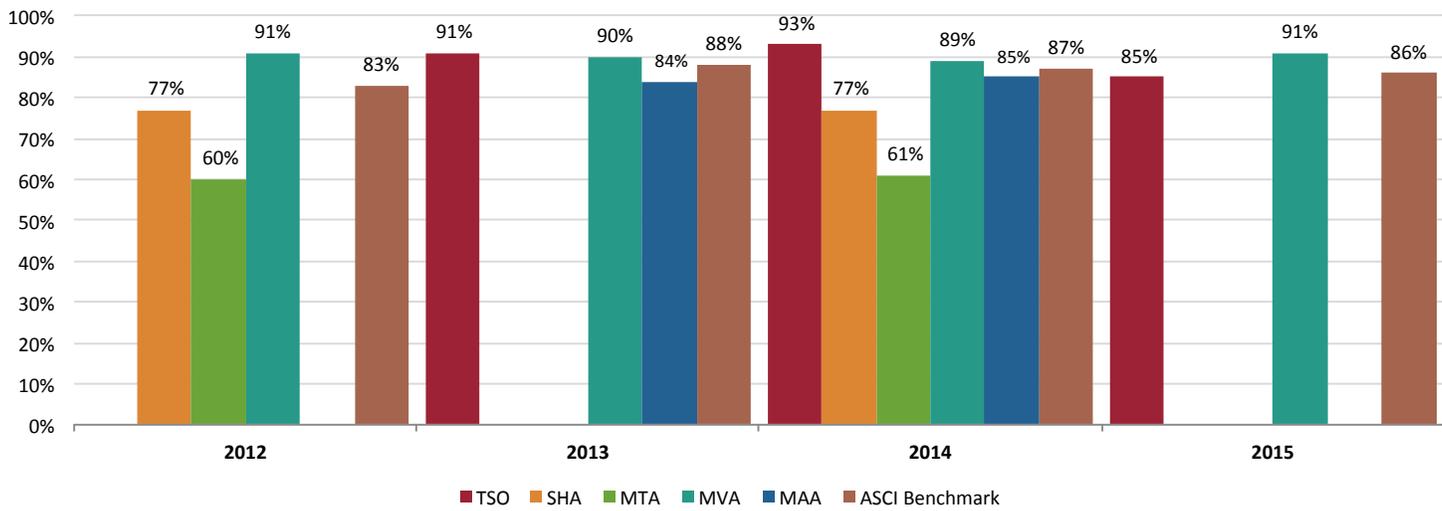
# Provide Exceptional Customer Service



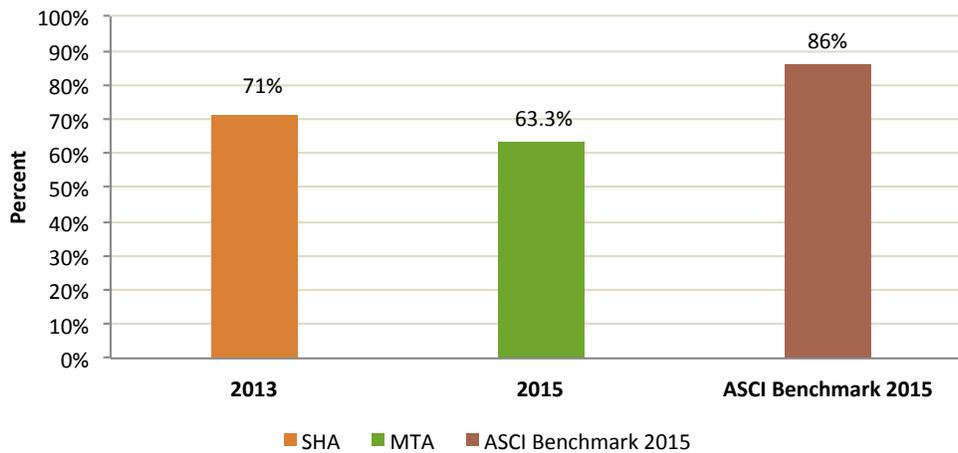
## PERFORMANCE MEASURE 1.4

### Customer Satisfaction with Interactions with MDOT Representatives

Customer Expectations Met or Exceeded based on Employee Professionalism and Respectfulness



Percent of Complaint Resolutions that Met or Exceeded Customer Expectations for Professional and Respectful Communication



# Provide Exceptional Customer Service

**TANGIBLE RESULT DRIVER:**

Leslie Dews  
Motor Vehicle Administration (MVA)

**PERFORMANCE MEASURE DRIVER:**

Mark Crampton  
State Highway Administration (SHA)

**PURPOSE OF MEASURE:**

To show how satisfied MDOT customers are when interacting with the website and usefulness of the information.

**FREQUENCY:**

Annually (in April)

**DATA COLLECTION METHODOLOGY:**

On-line Survey.

**NATIONAL BENCHMARK:**

ACSI e business report average of highest annual scores for social media, portal/search engine and news/opinion websites.

**PERFORMANCE MEASURE 1.5A**

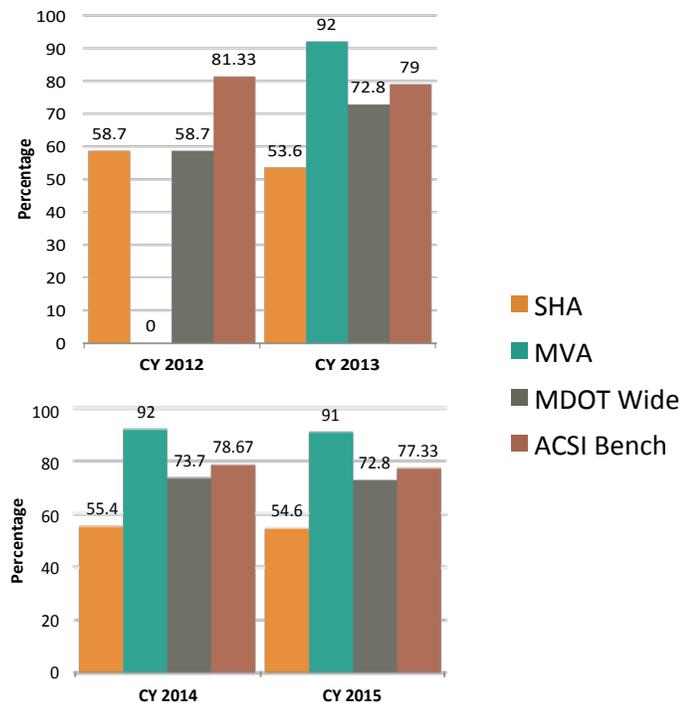
**Percent of Customers Who Felt MDOT Websites Met Their Needs**

Customers expect 21st century interactions with MDOT and its TBUs. MDOT’s websites provide customers with an alternative interaction point to make inquiries, access information and process transactions. Customers expect the information contained on the website to be accessible, useful, timely and easily understood.

Information derived from a SHA survey of customer website usage indicates that 48.5 percent of customers believe the website is helpful. MVA offers customers the eMVA service to complete online transactions. The eMVA customer survey data suggests 92 percent of users would recommend the service to a friend. In 2015, the ACSI average for this area was 77.33 percent.

This preliminary data demonstrates the need for improvement and development of a comprehensive approach to evaluating the efficacy of websites across the organization in meeting the needs of our customers.

**Percent of Customers Who Felt MDOT Websites Met Their Needs**



# Provide Exceptional Customer Service

**TANGIBLE RESULT DRIVER:**

Leslie Dews  
Motor Vehicle Administration (MVA)

**PERFORMANCE MEASURE DRIVER:**

Mark Crampton  
State Highway Administration (SHA)

**PURPOSE OF MEASURE:**

To show how satisfied MDOT customers are when interacting with the website and usefulness of the information.

**FREQUENCY:**

Annually (in April)

**DATA COLLECTION METHODOLOGY:**

On-line Survey.

**NATIONAL BENCHMARK:**

ACSI e business report average of highest annual scores for social media, portal/search engine and news/opinion websites with specifics on ease of use, ease of navigation and site performance.

**PERFORMANCE MEASURE 1.5B**

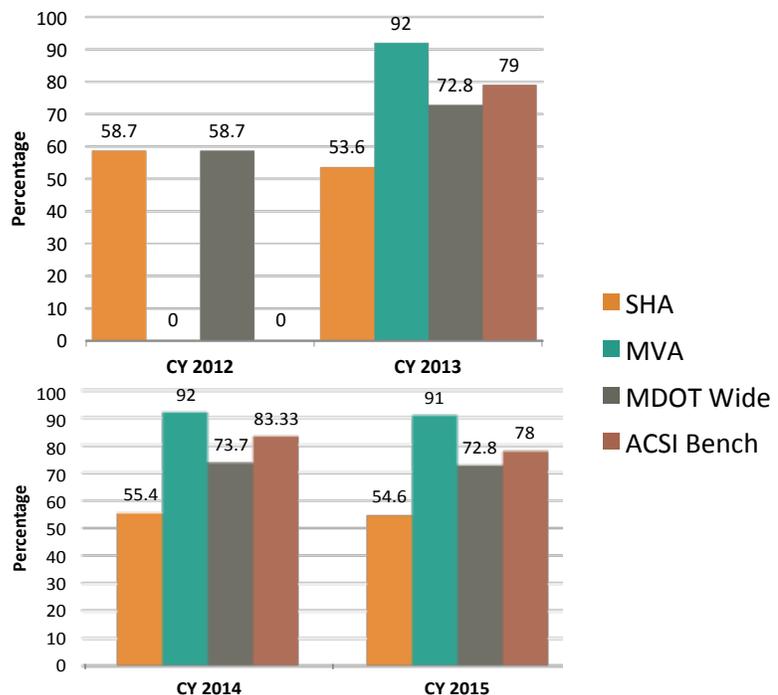
**Percent of Customers Who Felt that it was Easy to Find Desired Information on MDOT Websites**

MDOT’s considerable online presence enables customers to report and obtain information on our goods and services as well as process transactions. The quality of our websites is a key component in providing exceptional customer service. The information architecture and ease of navigation of TBU websites must be as such that information is structured and presented in a way that customers can readily access the wide range of data contained therein and quickly find desired content.

While the data presented below suggests the need for improvement in MDOT website performance, currently TBUs are not capturing data to determine if customers felt that their attempts to find desired information on MDOT websites was effortless.

MDOT must incorporate in its comprehensive efforts to improve the overall quality of TBU websites a component to measure, from the perspective of our customers, if preferred information can be easily obtained.

**Percent of Customers Who Felt that it was Easy to Find Desired Information on MDOT Websites**



## TANGIBLE RESULT #2

# Use Resources Wisely



MDOT receives resources from our customers and they expect products and services in return. To better serve our customers, MDOT must maximize the value of every dollar we spend.

### RESULT DRIVER:

Corey Stottlemeyer  
*The Secretary's Office (TSO)*

**TANGIBLE RESULT DRIVER:**  
 Corey Stottlemeyer  
 The Secretary's Office (TSO)

**PERFORMANCE MEASURE DRIVER:**  
 Dan Favarulo  
 The Secretary's Office (TSO)

**PURPOSE OF MEASURE:**  
 To track the efficiency of capital spending.

**FREQUENCY:**  
 Quarterly

**DATA COLLECTION METHODOLOGY:**  
 Track capital project spending versus the Consolidated Transportation Plan appropriated funds.

**NATIONAL BENCHMARK:**  
 N/A

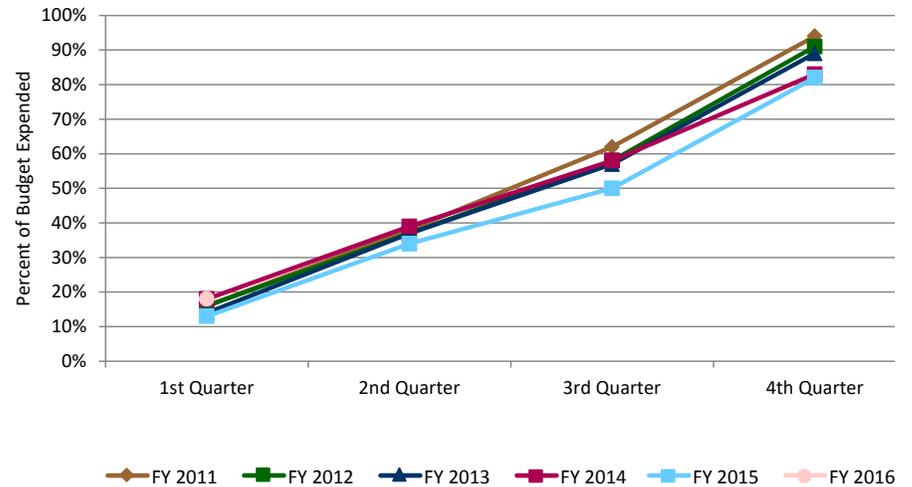
## PERFORMANCE MEASURE 2.1

### Percent Capital Dollars Spent as Programmed

The purpose of this measure is to show MDOT's customers that each TBU is spending its allocated capital dollars on a quarterly basis with the goal of efficiently meeting its allocation by the end of the fiscal year. Dollars spent divided by dollars appropriated will be compared to the same time period from previous fiscal years.

At the 1st Quarter Mark of FY 2017, MDOT's capital program spending rate was at 18 percent of capital budgeted funds expended, which is 3 percent higher than the historically average of 15 percent expended at this time of year. MDOT's latest capital forecast is predicting a 100 percent expenditure rate in FY 2017. This is unlikely to occur due to looming budget cuts.

**5 Yr Capital Program Expenditure Rate Trend Line - State & Federal**



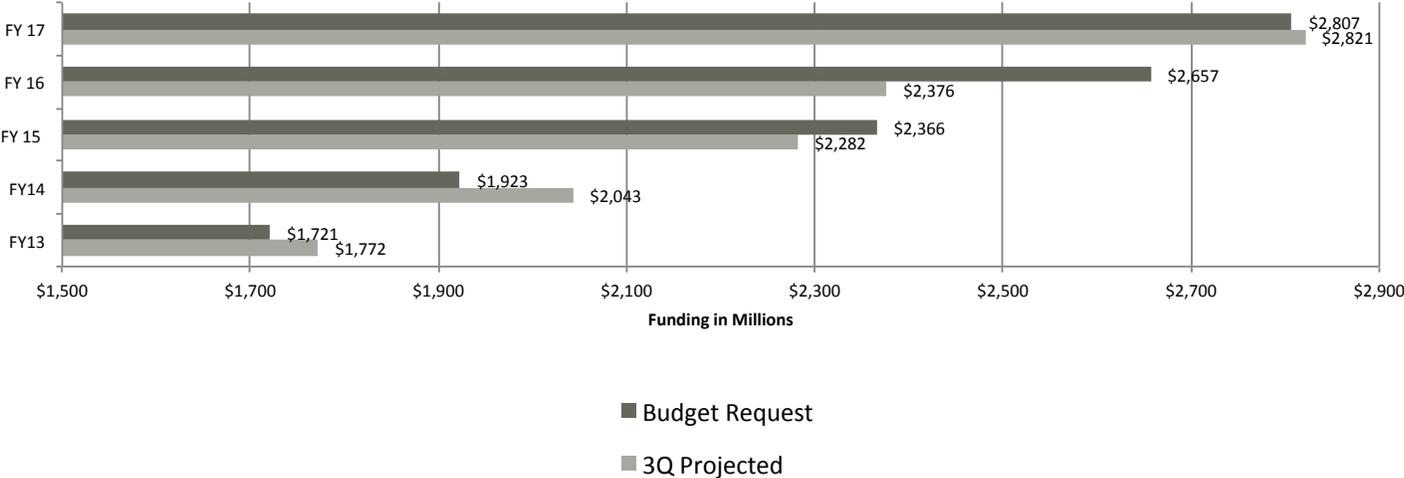
## PERFORMANCE MEASURE 2.1

### Percent Capital Dollars Spent as Programmed

MDOT is currently projected to expend \$14M over the \$2.8 billion budget program. In the last three years by the 3rd Quarter Program Development MDOT has usually already lowered their capital forecast to below budget levels. The Purple Line project increases in FY17 have offset the usual TBU program reductions at this time of year.

When breaking down each TBU, almost all have improved upon their FY16 1Q expenditure rate. Most notably is MPA which has shown a steady increase in expenditure performance due to Budget Development Strategies.

FY17 Budget vs. 3Q Projected Amounts

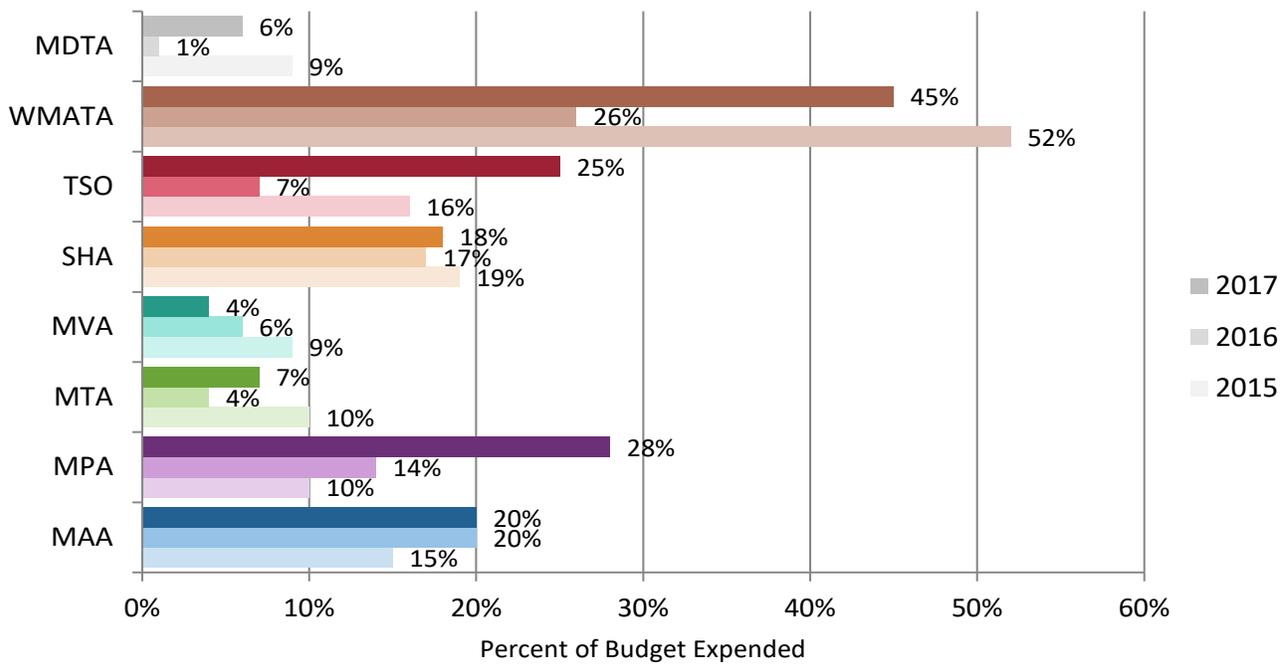




## PERFORMANCE MEASURE 2.1

### Percent Capital Dollars Spent as Programmed

3 Yr Expenditure Rate by Mode at Year End - State & Federal

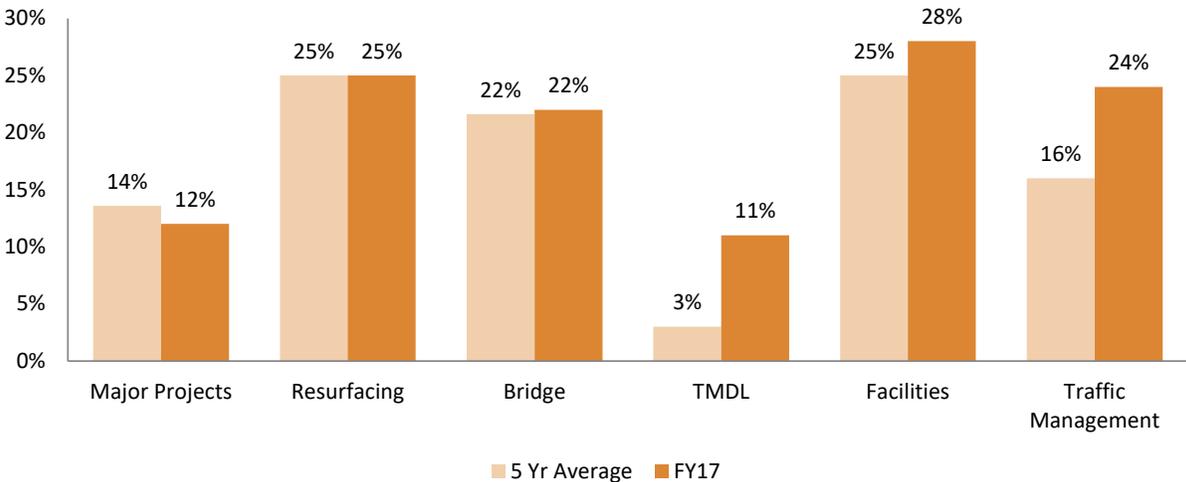


## PERFORMANCE MEASURE 2.1

### Percent Capital Dollars Spent as Programmed

SHA is a major contributing factor to the overall MDOT expenditure rate due to the size and scope of their program. As a result, keeping a pulse on their expenditure rates by the different SHA Fund Programs will proactively monitor any for early warnings. Currently all of their large programs are meeting or exceeding their historical expenditure rates at this time of year, with the exception of the Major Projects (Funds 70, 71 & 72). SHA's major projects is currently trending 2 percent lower than the historical average at this time each year. While this is not a significant difference, the latest forecasted amount for Major Projects is \$70M lowered than budgeted due to several large project schedule changes and revised estimates.

SHA - 1Q Mark Expenditure Rates By Program



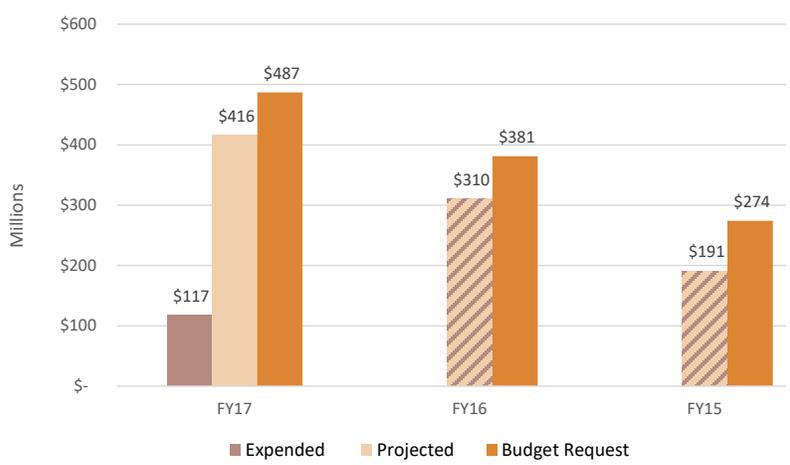


**PERFORMANCE MEASURE 2.1**

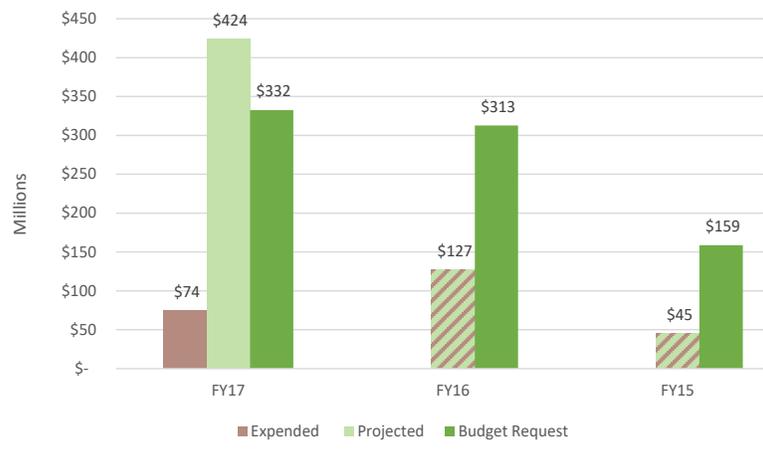
**Percent Capital Dollars Spent as Programmed**

MTA's Purple Line project is roughly 15 percent of the total MDOT Program and greatly affects MDOT's overall expenditure rate. Monitoring this project will provide early warnings of hitting budget projections. This project has historically missed funding targets and is currently projecting expenditures higher than budgeted, which is inflating MDOT's overall expenditure rate performance. Past spending performance and the latest project schedules indicate that the current forecasted amount is unlikely to be obtained.

**Major SHA Projects Budgeted vs. Expended (Federal & State)**



**MTA – Purple Line Budgeted vs. Expended (Federal & State)**



**TANGIBLE RESULT DRIVER:**  
 Corey Stottlemeyer  
 The Secretary's Office (TSO)

**PERFORMANCE MEASURE DRIVER:**  
 Dan Favarulo  
 The Secretary's Office (TSO)

**PURPOSE OF MEASURE:**  
 To measure the amount of other sources of dollars utilized to fund capital projects as an indicator of MDOT's efforts to leverage its finite resources.

**FREQUENCY:**  
 Annually (in April)

**DATA COLLECTION METHODOLOGY:**  
 This measure will track capital projects using 10 percent or more of funds from other sources.

**NATIONAL BENCHMARK:**  
 N/A

## PERFORMANCE MEASURE 2.2

### Percent of Projects Leveraging Other Funding Sources

The purpose of this measure is to track and highlight incidences to leverage Transportation Trust Fund (TTF) dollars with local and private dollars in an effort to better understand how MDOT is using its finite financial resources. Only projects that have at least 10 percent of the cost being covered by partners is included under this measure. Information is presented in two values: percent of projects and percent of additional dollars contributed from partners.

#### FY 2016 – FY 2021 Consolidated Transportation Program (CTP) Projects Using 10 Percent or More Funds from Other Sources

##### As a Percentage of Projects

Number	Projects	% of Projects
Total Projects	1,389	100%
Projects w/No Other Funding	1,328	96%
Projects w/Other Funding	61	4%

##### As a Percentage of Funding

Source	Funding	% of Funding
Total	\$15,817,983	100%
State	\$9,647,987	61%
Federal	\$4,956,488	31%
Other	\$1,213,508	8%

**TANGIBLE RESULT DRIVER:**

Corey Stottlemeyer

*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Amber Harvey

*Maryland Transportation Authority (MDTA)*

**PURPOSE OF MEASURE:**

To track the commitment of our employees in furthering MDOT's reputation, mission and interests by identifying key motivators and obstacles in the workplace.

**FREQUENCY:**

Annually (in January)

**DATA COLLECTION METHODOLOGY:**

Develop and implement one MDOT employee engagement survey administered to all employees. Online and hard copies will be made available. Cloud-based and mobile platforms are a consideration.

**NATIONAL BENCHMARK:**

\*GALLUP 2015 national engagement percentages:

32 percent Engaged employees

50.8 percent not engaged

17.2 percent actively disengaged

*\*International Public Management Association for Human Resources 2012 and 2014 data available*

## PERFORMANCE MEASURE 2.3

### Employee Engagement

Engagement accounts for the emotional commitment an employee has for an organization and the amount of discretionary effort the employee expends on behalf of that organization. Engaged employees go beyond what they "have to do" to what they "want to do" for their employer and customers.

MDOT's TBUs strongly support employee engagement initiatives and recent practices have collected workforce feedback through the use of employee surveys. However, staffing fluctuations and limited financial resources are a continued challenge for employee engagement efforts.

MDOT can ensure a systematic and consistent approach to employee engagement by combining talent, effort and resources under a single agency-wide survey, while also avoiding redundancies and minimizing expense. MDOT has partnered with an outside research institute to administer this comprehensive employee survey in January 2017.

**TANGIBLE RESULT DRIVER:**

Corey Stottlemeyer  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Amber Harvey  
*Maryland Transportation Authority (MDTA)*

**PURPOSE OF MEASURE:**

To identify the percentage of employees who leave MDOT and analyze trends in voluntary and involuntary separations.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

Quarterly reports of employee separations are provided by TSO HRIS Unit. These reports show the number of separations during a given period of time for each TBU broken down by all available separation codes (i.e. reasons).

**NATIONAL BENCHMARK:**

U.S. Department of Labor (DOL) Bureau of Labor Statistics for U.S. State and Local Governments

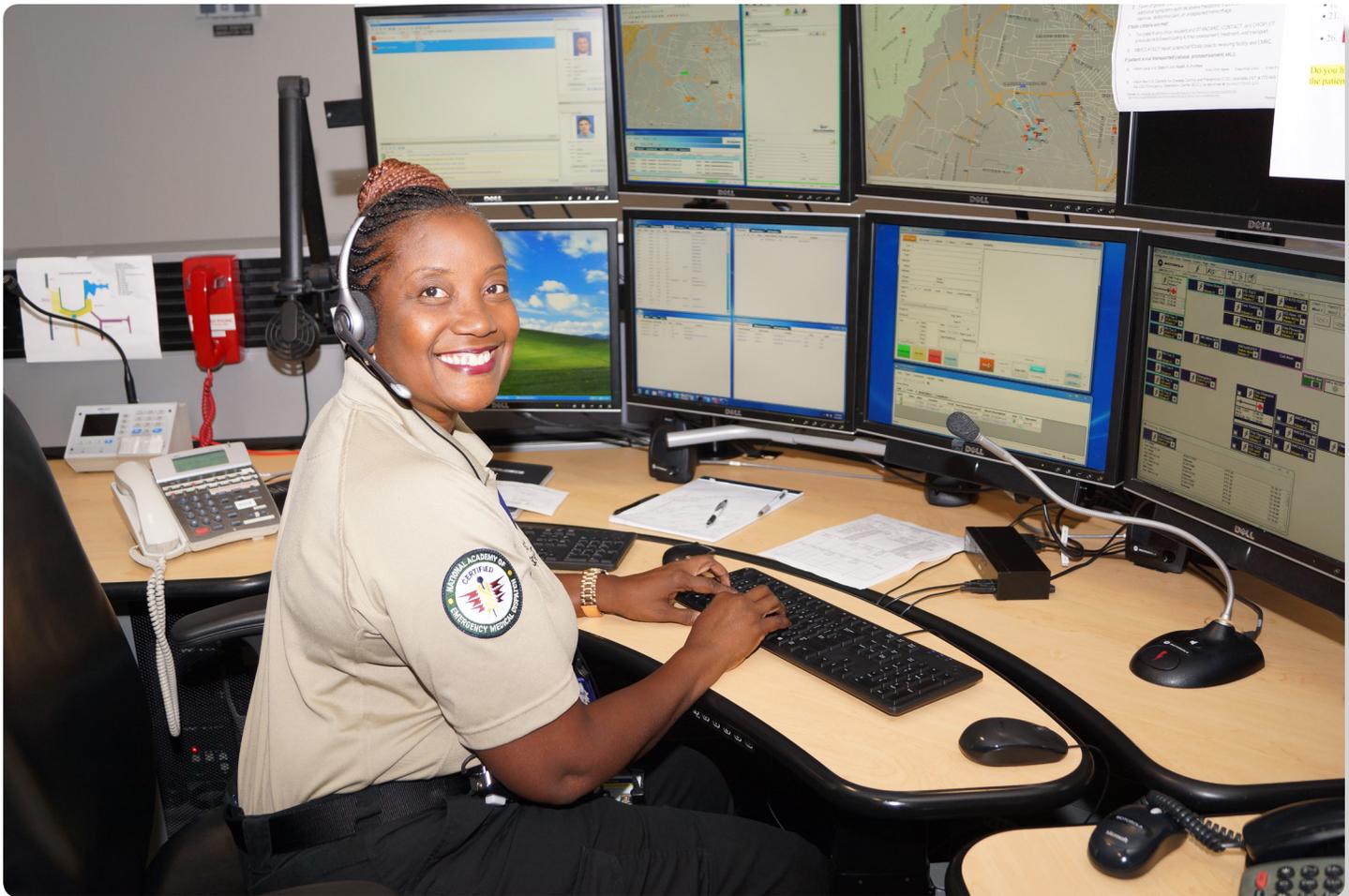
## PERFORMANCE MEASURE 2.4

### Employee Turnover Rate

Annual employee turnover rate is the ratio of total separations, both voluntary and involuntary, compared to the average number of employees during the given timeframe, expressed as a percentage. The Human Resource Information System (HRIS) Unit in the Human Resources Division of the TSO provided the total number of employees and total number of separations for each TBU on a quarterly basis. The national benchmark was determined by utilizing the U.S. Bureau of Labor Statistics' Job Opening and Labor Turnover Survey (JOLTS) data for U.S. state and local governments (excluding education) total employee separations.

As shown in the chart below, several TBUs experienced a decrease or stable turnover rate for the 1st quarter (Q1) of FY 2017 compared to FY 2016. The MDOT total employee turnover rate also decreased while still remaining well below the national turnover average for state and local governments. This reflects a positive trend.

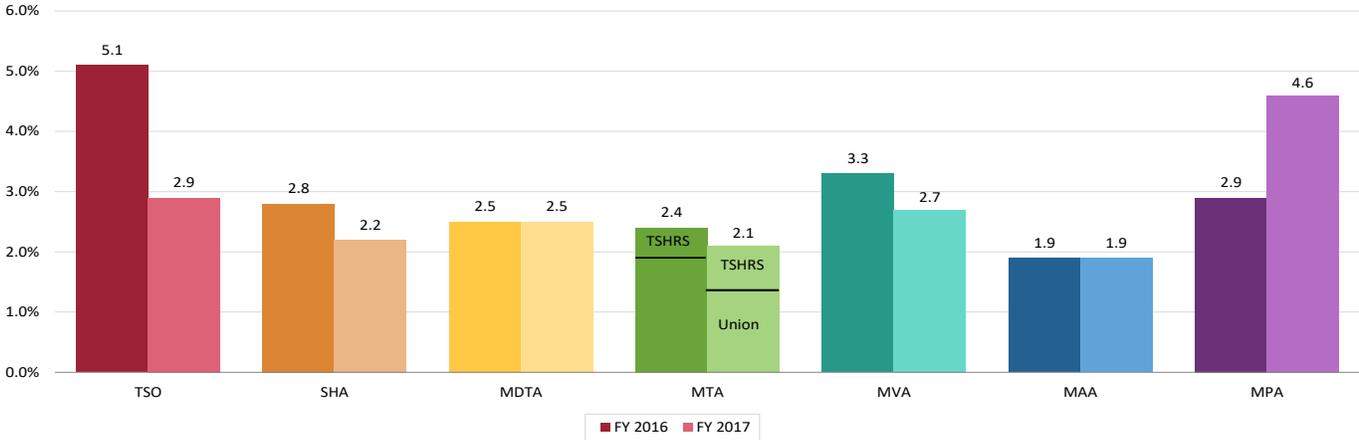
# Use Resources Wisely



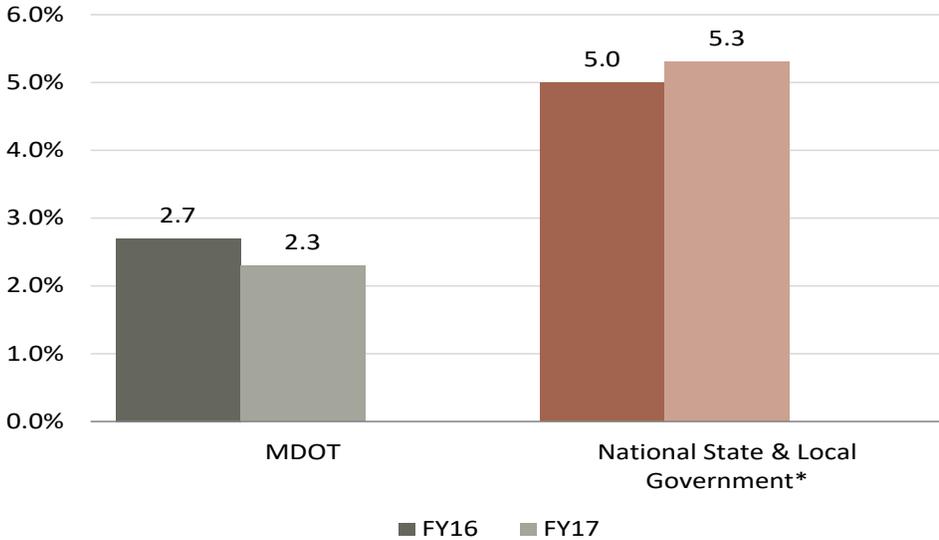
## PERFORMANCE MEASURE 2.4 Employee Turnover Rate

The next table illustrates employee turnover rates for each MDOT Business Unit for the first quarter of fiscal year 2017.

**O1 TBU Turnover Rates**



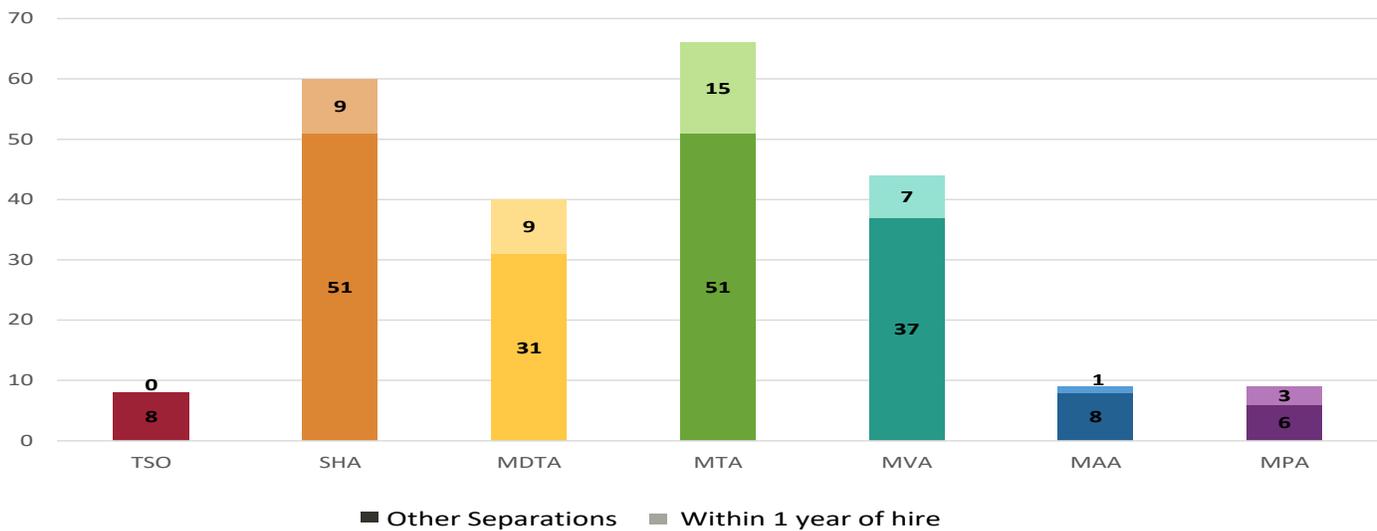
**1st Quarter Turnover Comparison**



## PERFORMANCE MEASURE 2.4 Employee Turnover Rate

One notable element that continues to be important in analyzing MDOT turnover is the employee separations that occur within one year from the date of hire. The following chart illustrates the number of newly hired employees that have separated from MDOT in comparison to all other separations during Q1 of FY 2017. This data reflects that approximately 19% percent of all employee separations during this timeframe occurred within the first year of hire.

**FY 2017 Q1 Total Employee Separations**



Several action strategies are underway to address employee turnover concerns. In October 2016, MDOT- MTA successfully identified and resolved a payroll system coding limitation that now allows the appropriate reason for separation to be tracked for all MTA employees, including TSHRS and union employees. Properly identifying the reason these employees choose to leave MDOT is a crucial factor in developing successful business practices to retain a healthy workforce and lower turnover costs. In addition, MDOT – TSO collected exit interview procedures and materials from all TBUs and a review of these materials is underway to determine best practices and areas for improvement. MDOT – TSO is also leading the effort of developing a MDOT employee separation policy to document and standardize necessary procedures.

**TANGIBLE RESULT DRIVER:**

Corey Stottlemeyer

*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Deborah Hammel

*State Highway Administration (SHA)*

**PURPOSE OF MEASURE:**

To demonstrate efficient use of available positions and identify opportunities for improvement in our recruitment and selection processes.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

Quarterly report for MDOT and each TBU from HRIS housed at TSO, with input from TBU Human Resource Directors.

**NATIONAL BENCHMARK:**

N/A

## PERFORMANCE MEASURE 2.5

### Time to Fill Vacancies

Reducing the time it takes to fill our vacant positions will increase MDOT's staffing levels, improving the ability to deliver projects on time and rapidly address emergencies affecting the transportation system.

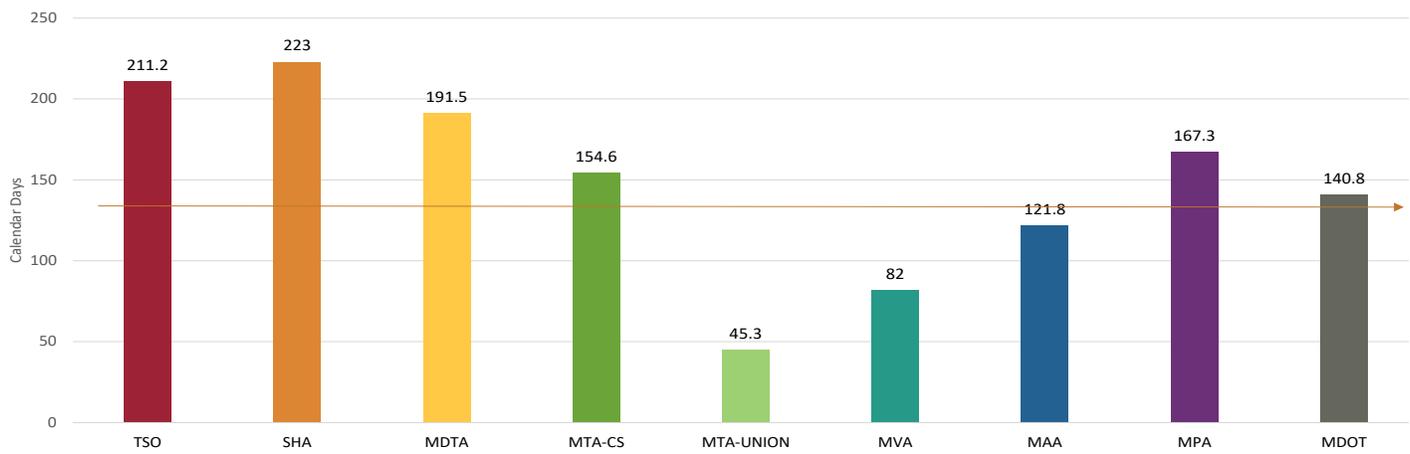
All TBUs submitted data on the amount of time involved with each stage of the recruiting process for the period July 1 – September 30, 2016, including Hiring Freeze Exemptions, Selection Plans, Classification Reviews, Selection Plans, Job Posting, distribution of Eligible Lists, scheduling interviews and filling the vacancies. Average time to fill ranged from a low of 45 days for MTA Union to a high of 223 days for SHA. The overall MDOT average for this quarter is 149.6 days, trending down. The elimination of the Hiring Freeze Exemption Request process recently announced should result in further efficiencies in our process.

TBUs have implemented a number of strategies to improve time to fill, including: biweekly reports or meetings to review vacancies and recruiting activity; posting job announcements pending submission of Selection Plan questions and interview panel members; developing and distributing recruiting timelines to Senior Managers and Hiring Managers for increased accountability; and reallocating vacant PINs over 6 months old.

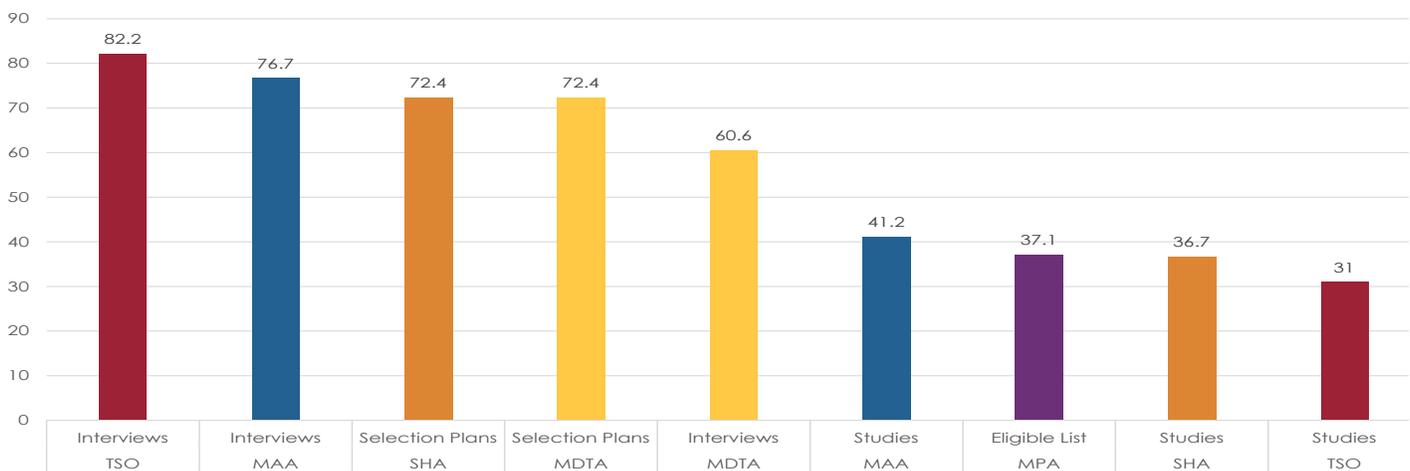


## PERFORMANCE MEASURE 2.5 Time to Fill Vacancies

Average Time to Fill Vacancies (July 1 - September 30, 2016)



Steps in the Filling Vacancy Process Averaging Greater Than 30 Calendar Days



**TANGIBLE RESULT DRIVER:**

Corey Stottlemeyer

*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Bill Bertrand

*State Highway Administration (SHA)*

**PURPOSE OF MEASURE:**

To calculate the percentage of Fixed Asset Units counted during the Annual Physical Inventory of Fixed Assets as an indicator of how well MDOT records, safeguards, and efficiently controls fixed assets.

**FREQUENCY:**

Annually (in October)

**DATA COLLECTION METHODOLOGY:**

Data will be collected when the business units conduct annual fixed asset physical inventories.

**NATIONAL BENCHMARK:**

N/A

## **PERFORMANCE MEASURE 2.6**

### **Percentage of Fixed Asset Units Identified or Accounted for During the Annual Physical Inventory of Fixed Assets**

This performance measure is intended to emphasize the importance of stewardship and internal controls with respect to fixed assets owned by each of MDOT's business units. This performance measure reports the percentage of fixed assets counted by each business unit during its annual fixed asset physical inventory versus the number of fixed assets recorded in each business unit's official inventory records.

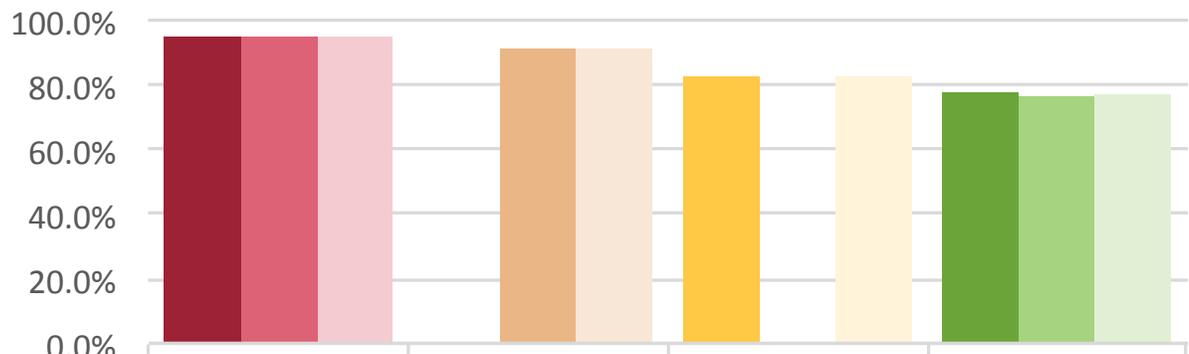
A regularly-conducted physical inventory of fixed assets ensures accurate information for the management of assets and discourages fraud.

Currently, five of seven business units conduct a full inventory of Non-Sensitive Items once every three years and a full inventory of Sensitive Items annually. The remaining business units, MAA and SHA, conduct a full inventory of both sensitive and non-sensitive items annually.

**PERFORMANCE MEASURE 2.6**

Percentage of Fixed Asset Units Identified or Accounted for During the Annual Physical Inventory of Fixed Assets

Assets Measured - 2015

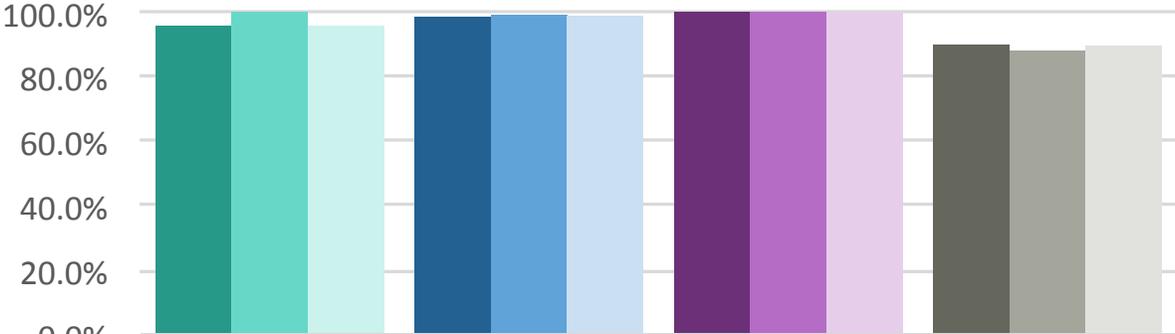


	TSO	SHA	MDTA	MTA
■ Sensitive Assets	94.9%	0.0%	82.8%	77.7%
■ Non-Sensitive Assets	94.9%	91.4%	0.0%	76.7%
■ Total Assets	94.9%	91.4%	82.8%	77.3%

**PERFORMANCE MEASURE 2.6**

Percentage of Fixed Asset Units Identified or Accounted for During the Annual Physical Inventory of Fixed Assets

Assets Measured - 2015



	MVA	MAA	MPA	MDOT
■ Sensitive Assets	95.7%	98.6%	100.0%	89.9%
■ Non-Sensitive Assets	100.0%	99.0%	100.0%	87.3%
■ Total Assets	95.8%	98.8%	100.0%	89.4%

**TANGIBLE RESULT DRIVER:**

Corey Stottlemeyer

*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Tony Moore

*Maryland Port Administration (MPA)*

Nicole Katsikides

*State Highway Administration (SHA)*

**PURPOSE OF MEASURE:**

Provide an overview which shows how TBUs monitor asset management activities.

**FREQUENCY:**

Annually (in January)

**DATA COLLECTION METHODOLOGY:**

Asset inspection condition and asset life-cycle cost analyses are compiled at the TBU level.

**NATIONAL BENCHMARK:**

N/A

## PERFORMANCE MEASURE 2.7

### Managing Capital Assets

Our customers deserve to know that MDOT is strategically managing its diverse capital assets. Each TBU maintains its physical assets according to policies that minimize asset life-cycle cost while avoiding negative impacts on the delivery of transit services.

MTA, SHA, MAA, MDTA and MPA perform annual bridge inspections per Federal guidelines to assess a rating, which is used to determine if any remedy is required to keep bridges structurally sound.

SHA and MDTA monitor the condition of pavement and road ride smoothness; monitoring is performed by annual road inspections.

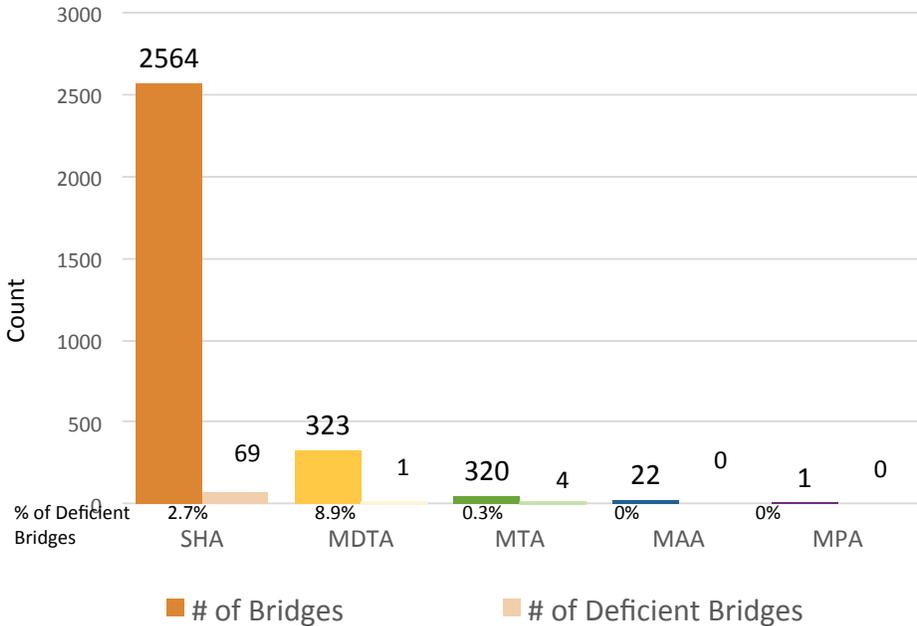
MTA monitors rail conditions for MTA Metro and Light Rail systems using TERM Lite evaluation software to evaluate guideway, track work and special structures. Evaluation will occur during an annual asset inventory.

MPA utilizes U.S. Army Corps of Engineers bay channel annual inspection surveys to monitor the dredging depth for shipping access channels to the Port of Baltimore.

## PERFORMANCE MEASURE 2.7 Managing Capital Assets

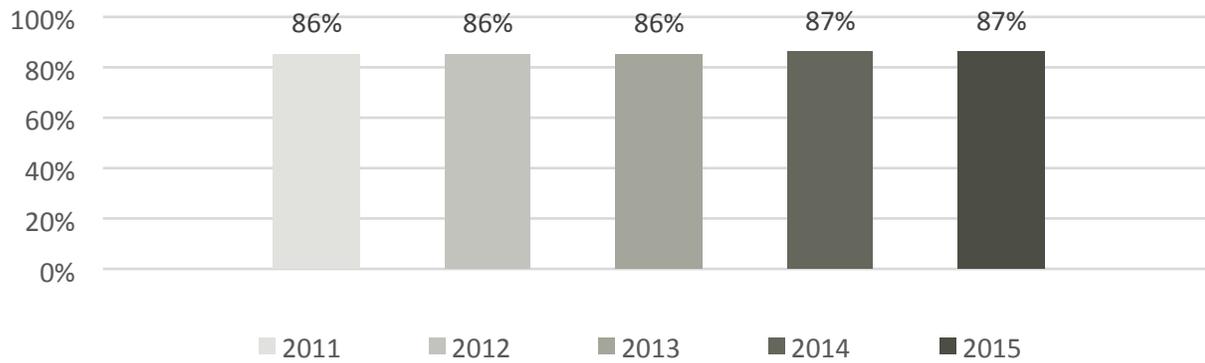
TBU	Active Asset Mgt	Criteria Basis	Assets Managed	Inspection Intervals	Performance Measures
Multiple	Yes	Bridge condition	Structurally deficient bridges	Annual	2.7a - % of structurally deficient bridges
MTA	Yes	Rail condition	Light and heavy rail	Annual	2.7c - % of MTA owned rail in good quality based on FTA ranking guide lines
SHA/MDTA	Yes	Roadway ride condition	Roadways - With acceptable (smooth) rides	Annual	2.7b - % of roadway miles with acceptable (smooth) ride quality
SHA	Yes	Interstate pavement condition (good or not good).	Interstates and non-interstate pavement	Annual	2.7e/2.7f - % of interstate and non-interstate pavement which are in good condition
MPA	Yes	Bay channel dredging priority	Shipping channel depth	Annual	2.7d - % of channel depth inspections

**2.7A – Number of Structurally Deficient Bridges CY 2015**

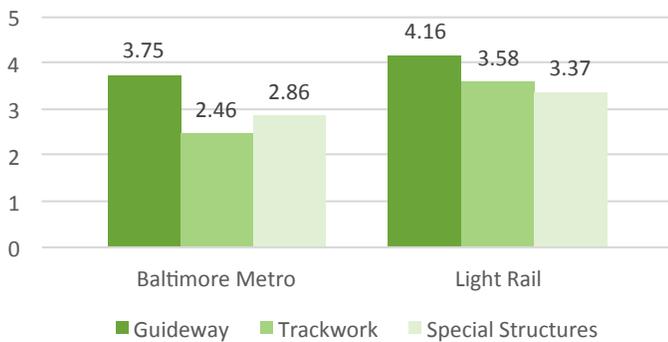


## PERFORMANCE MEASURE 2.7 Managing Capital Assets

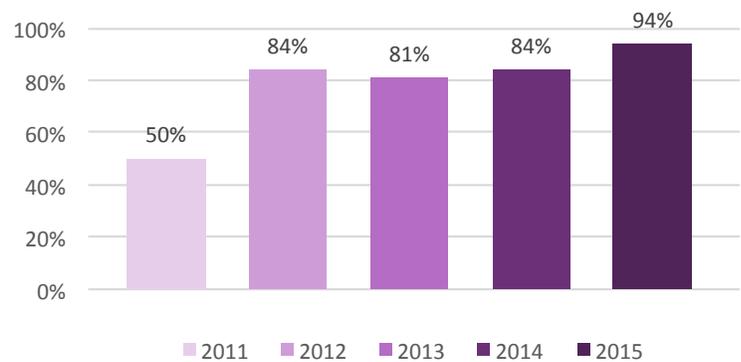
### 2.7B – Percent of SHA and MDTA Roadway Miles with Acceptable (Smooth) Rides



### 2.7C – Rating of Rail in “Good” Condition

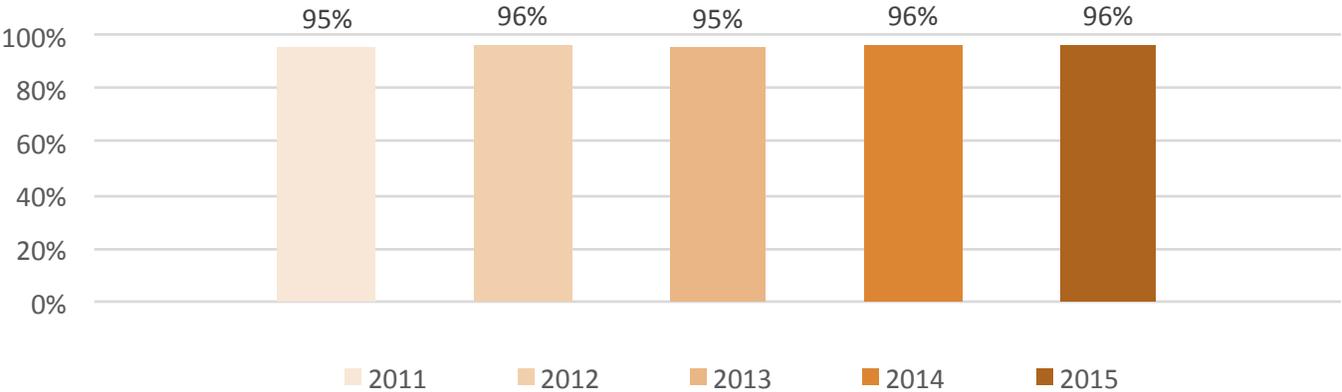


### 2.7D – Percentage of Channel Segments with U.S. Army Corps of Engineers Channel Inspection Less Than or Equal to 1 Year Old

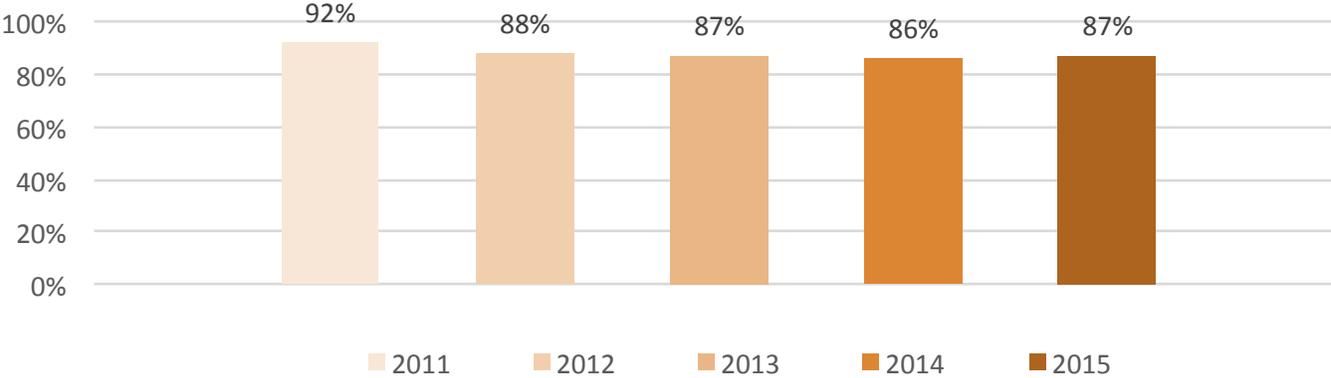


## PERFORMANCE MEASURE 2.7 Managing Capital Assets

2.7E – Percent of Interstate Pavement in “Acceptable” Condition



2.7F – Percent of Non-Interstate Pavement in “Acceptable” Condition



**TANGIBLE RESULT DRIVER:**

Corey Stottlemeyer  
The Secretary's Office (TSO)

**PERFORMANCE MEASURE DRIVER:**

Pretam Harry  
Motor Vehicle Administration (MVA)

**PURPOSE OF MEASURE:**

To track the timeliness and ability to match the budgets of the procurement process to be more efficient in our contracts.

**FREQUENCY:**

Annually (in October)

**DATA COLLECTION METHODOLOGY:**

Focus reports MDOT wide showing all active BPO for the fiscal year.

**NATIONAL BENCHMARK:**

N/A

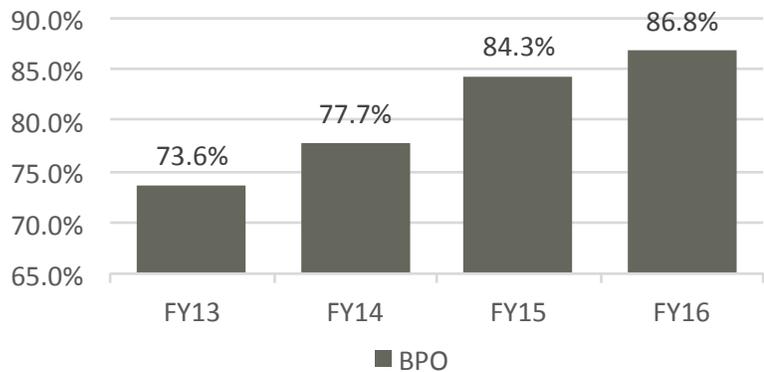
## PERFORMANCE MEASURE 2.8

### Percent of Procurement on Time and on Budget

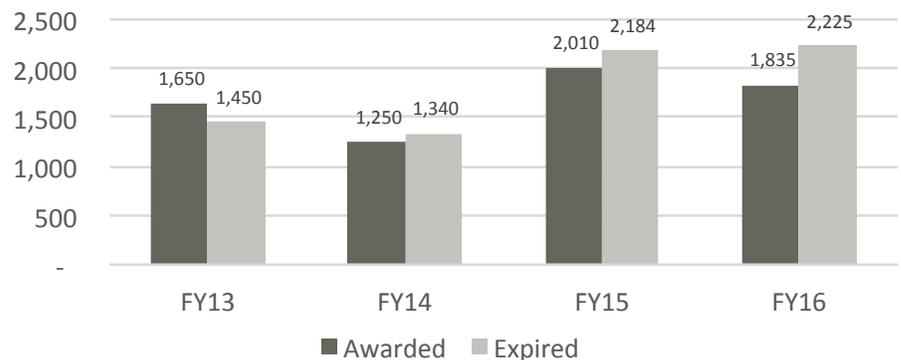
The purpose of this measure is to encourage all managers to proactively monitor and manage each of their procurements to make sure they are in line with the project and budget in an effort to improve overall contracting efficiencies. Over time, managers will do a better job at setting timelines and budgets for projects. Managers will report the project status accurately and in a timely manner so that problems are identified early and corrective action taken swiftly.

While the trend is improving, we have not addressed underlying issues. The focus must remain on identifying those contracts with issues. The process improvement team is working to understand the systemic problems that prevent contracts that should have been closed in FY2016 from being closed.

**Percent of Blanket Purchase Orders (BPO) Expired**



**Number of Blanket Purchase Order (BPO) Awards and Expires**



**TANGIBLE RESULT DRIVER:**  
Corey Stottlemeyer  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**  
Pretam Harry  
*Motor Vehicle Administration (MVA)*

**PURPOSE OF MEASURE:**  
To measure (a) the percent of occurrences and (b) the dollar value of unanticipated contract modifications on procurement contracts.

**FREQUENCY:**  
Annually (in October)

**DATA COLLECTION METHODOLOGY:**  
MDOT wide showing active unanticipated contract modifications equal to or greater than \$1 million.

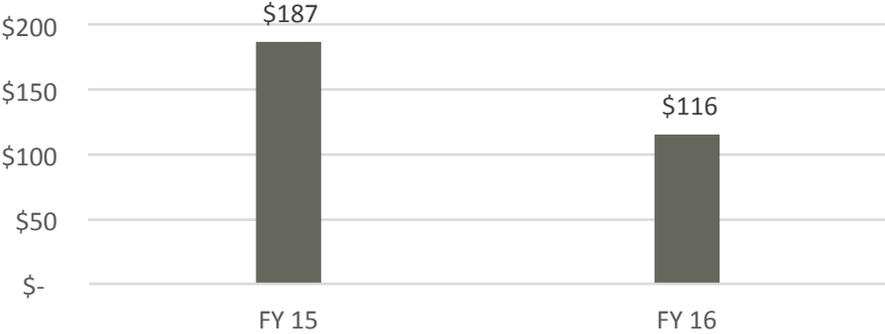
**NATIONAL BENCHMARK:**  
N/A

## **PERFORMANCE MEASURE 2.9** Percent and Value of Unanticipated Contract Modifications

The purpose of this measure is to encourage all managers to proactively monitor and manage each of their procurements to make sure that they are minimizing the value and amount of unanticipated contract modifications. In addition, it will encourage project staff to use timely and accurate reports that managers can analyze to examine trends in unanticipated contract modifications.

The amount and value of contract modifications will vary from one TBU to another depending on the type of project. For example, construction contracts, because of the uncertainties due to weather conditions or soil conditions, may require more contract modifications than building maintenance contracts. Similarly, an IT development contract may require more contract modifications than an IT maintenance contract.

**Value of Unanticipated Contract Modifications in Millions of Dollars**

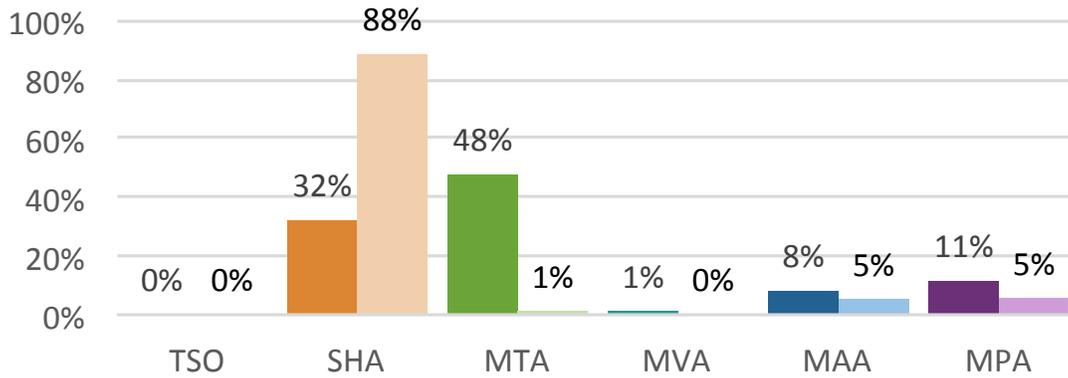




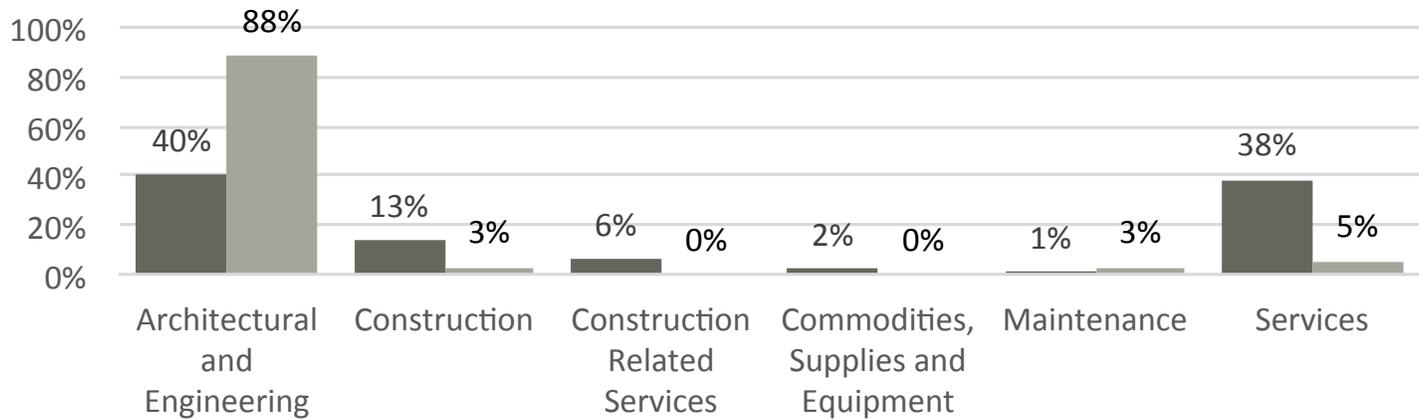
## PERFORMANCE MEASURE 2.9

### Percent and Value of Unanticipated Contract Modifications

Percent of Unanticipated Contract Modification Dollars Spent by TBU FY 15 & FY 16



Percent of Unanticipated Contract Modification Dollars Spent by Category of Work in FY 15 & FY 16



**TANGIBLE RESULT DRIVER:**  
Corey Stottleyer  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**  
Laura Getty  
*Maryland Transit Administration (MTA)*

**PURPOSE OF MEASURE:**  
To understand how procurement competition impacts MDOT resources.

**FREQUENCY:**  
Quarterly

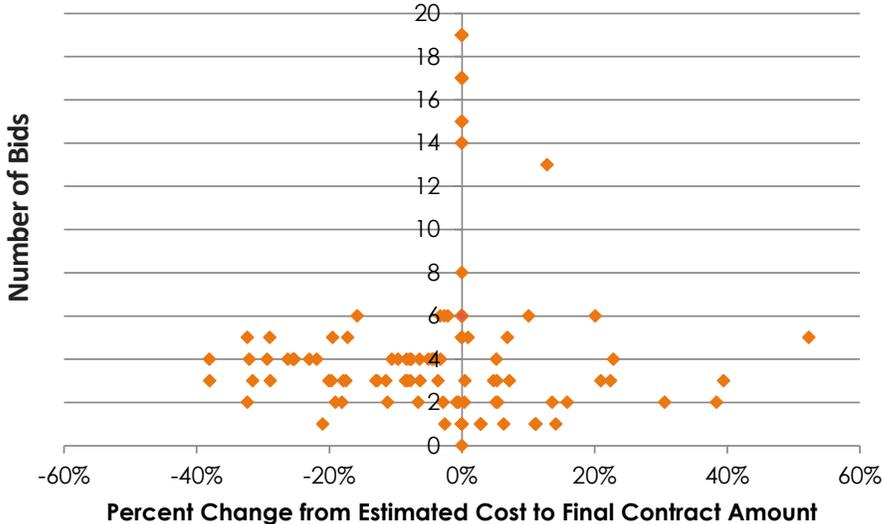
**DATA COLLECTION METHODOLOGY:**  
Data was collected on each TBU procurement contract over \$200,000 during the first quarter of FY 2017. Sole source, emergency, and intergovernmental purchasing procurements were not included, as they have their own processes for determination. Procurement contract ID, number of bids, estimated cost and final contract amount were the used data points.

**NATIONAL BENCHMARK:**  
N/A

## PERFORMANCE MEASURE 2.10 Relationship Between Procurement Competition and Cost

The purpose of this performance measure is to assess the impact of procurement competitiveness on contract costs, testing the hypothesis that increased competition leads to a better price. The chart below suggests that, as the number of bids increase, procurement contracts come in at or below cost estimate (-100 percent -0 percent). The procurements that increased in cost had a low number of bids. The data trend presents an opportunity to develop an MDOT-wide initiative to track cost estimates on procurement contracts and to evaluate the process for determining estimates.

**Percent Change from Estimated Cost to Final Contract Amount**



**TANGIBLE RESULT DRIVER:**

Corey Stottlemeyer  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Patrick Bradley  
*Maryland Aviation Administration*

**PURPOSE OF MEASURE:**

To monitor compliance with State and organizational operating processes and procedures each year by tracking the number of Internal Audit Findings and Repeat Internal Audit Findings.

**FREQUENCY:**

Annually (in October)

**DATA COLLECTION METHODOLOGY:**

Information collected from TBU audit databases.

**NATIONAL BENCHMARK:**

N/A

## PERFORMANCE MEASURE 2.11

### Number of Internal Audit Findings and Number of Repeat Internal Audit Findings

Transparent, informative, and accurate financial reporting is essential for our customers to have confidence in MDOT's ability to manage resources. Audits provide a window into current systems and areas for improvement.

Data will be presented by TBU in the number of audit findings and repeat audit findings on an annual basis. This will encourage MDOT and each TBU to avoid audit and repeat audit findings.

In FY 2013-2016, there were 627 total Internal Findings. The number of Repeat Internal Audit Findings totaled 32 in FY 2013 – FY2016, dealing with materials and supplies management (16 findings), fixed asset inventories (6 findings), promotional expense documentation and authorization (5 findings), MBE subcontractors reporting and compliance reviews (2 findings), and one finding each on the COMAR competitive bid process, overtime approvals not being documented and improper auto title lien documentation.

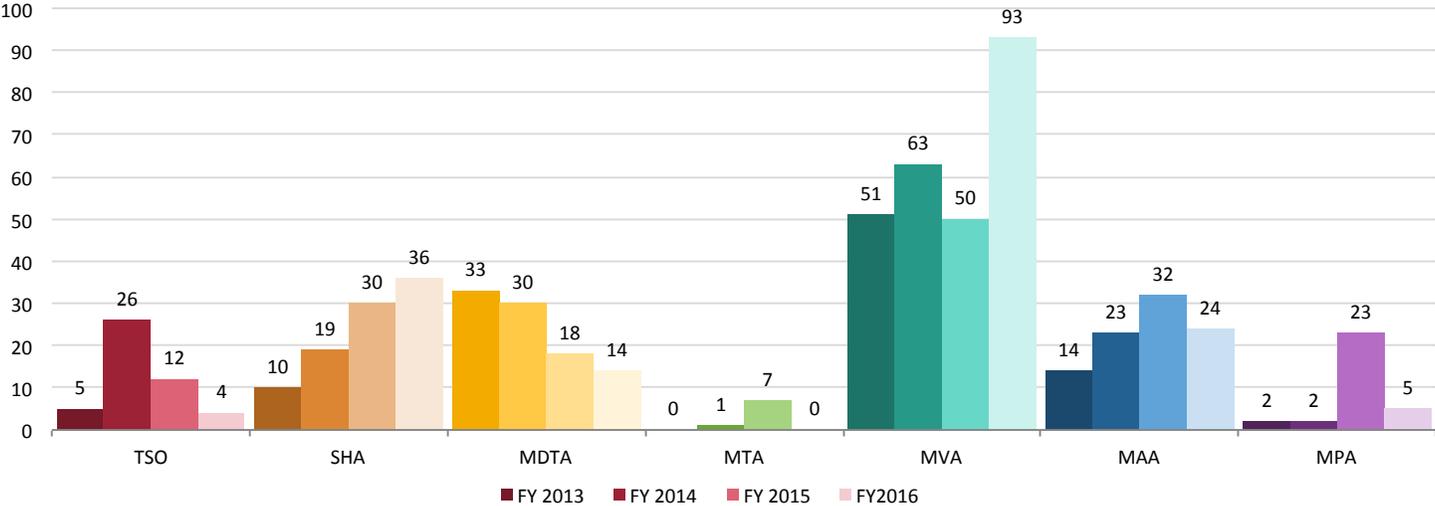
The materials and supplies management repeat audit findings include such items as segregation of duties, access to storeroom, non-signed receipts, perpetual inventory records not being accurate, documentation issues and inventory turning over less than three times per year.

Thirteen of thirty-two Repeat Internal Audit Findings have been resolved. Of the remaining unresolved nineteen Repeat Internal Audit Findings, thirteen are FY 2016 findings which are unresolved as the Audit staff have not confirmed implementation of the changes. The remaining six items are three findings repeated in both FY 2013 and FY 2015 which are scheduled to be resolved Spring 2017.

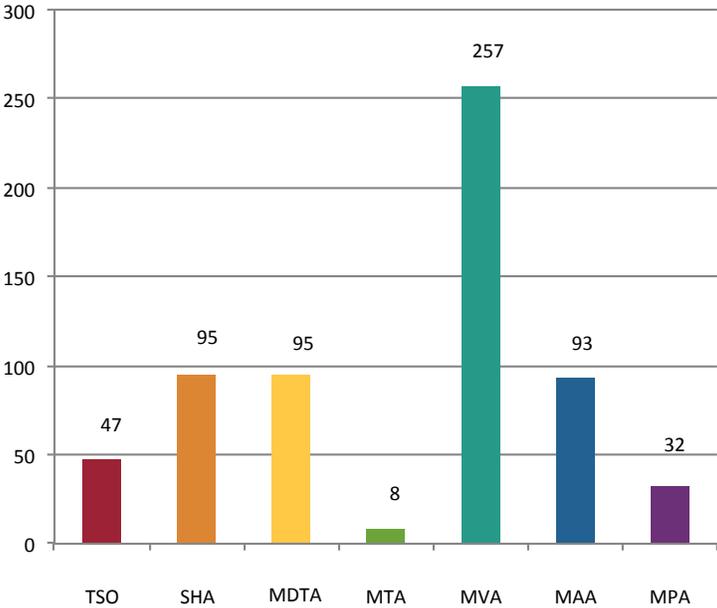
## PERFORMANCE MEASURE 2.11

Number of Internal Audit Findings and Number of Repeat Internal Audit Findings

Number of Internal Audit Findings



Number of Total Internal Audit Findings by TBU for FY13-16

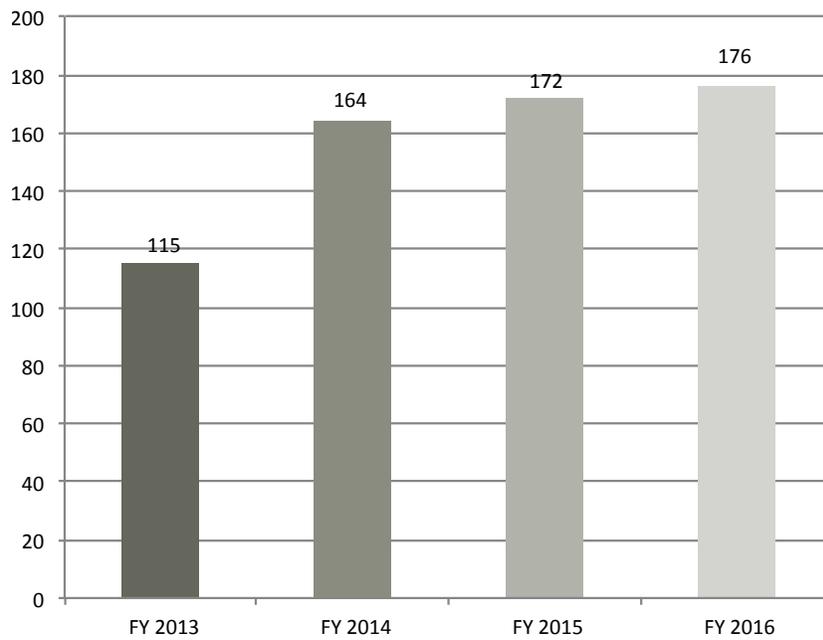




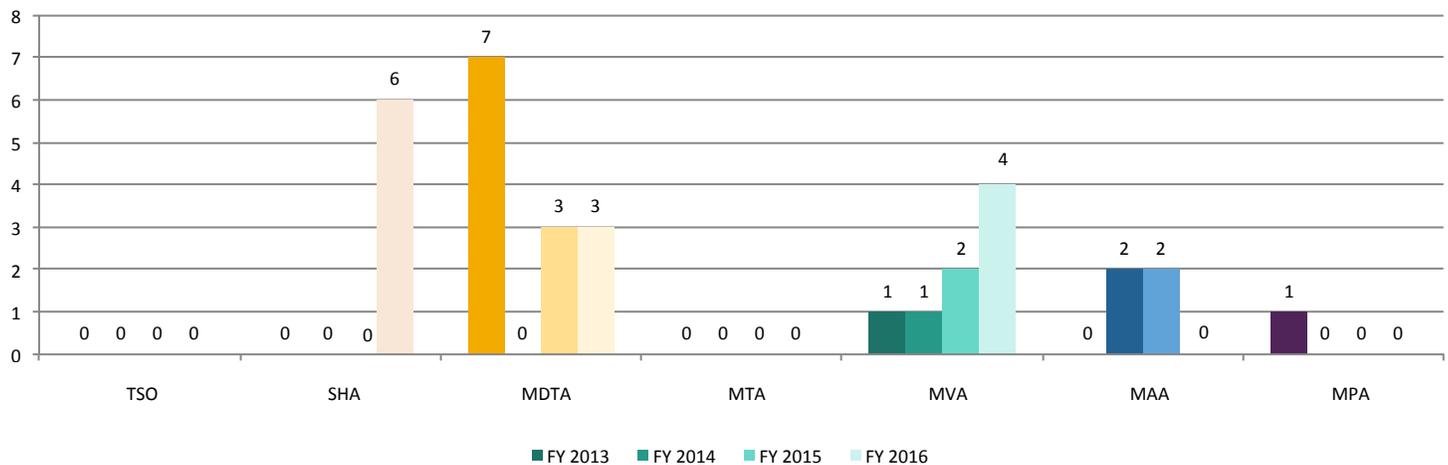
## PERFORMANCE MEASURE 2.11

Number of Internal Audit Findings and Number of Repeat Internal Audit Findings

Trend in Total Internal Audit Findings for FY 2013 - FY 2016



Number of Internal Audit Repeat Findings



**TANGIBLE RESULT DRIVER:**  
Corey Stottlemeyer  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**  
Patrick Bradley  
*Maryland Aviation Administration (MAA)*

**PURPOSE OF MEASURE:**  
To monitor compliance with State and organizational operating processes and procedures each year by tracking the number of Legislative Repeat Audit Findings.

**FREQUENCY:**  
Annually (in January)

**DATA COLLECTION METHODOLOGY:**  
Information collected from TBU audit databases.

**NATIONAL BENCHMARK:**  
N/A

## **PERFORMANCE MEASURE 2.12** Number of Legislative Repeat Audit Findings

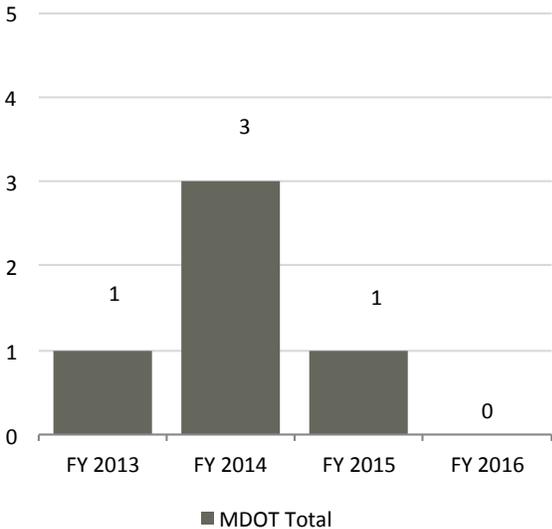
Transparent, informative, and accurate financial reporting is essential for our customers to have confidence in MDOT's ability to manage resources. Legislative audits provide an external view of our current systems and areas for improvement.

The purpose of this performance measure is to track the number of Legislative Repeat Audit Findings. Data will be presented MDOT-wide in the number of legislative repeat audit findings on an annual basis. This will encourage MDOT and each TBU to avoid legislative repeat audit findings.

In FY2013-FY2015 there were five total Office of Legislative Audit (OLA) Repeat Audit Findings dealing with proper internal controls over items purchased not being maintained, access to fare collection equipment and money rooms not being controlled, a lack of access control to critical database security logs, a lack of files and transactions, a lack of controls over critical virtual servers, and the process for determining the propriety of architectural and engineering contract billings not being comprehensive.

The five Legislative Repeat Audit Findings occurred in FY 2013 – FY 2015 and have been resolved. There were zero Legislative Repeat Audit Findings in FY 2016.

**Number of Legislative Repeat Audit Findings**

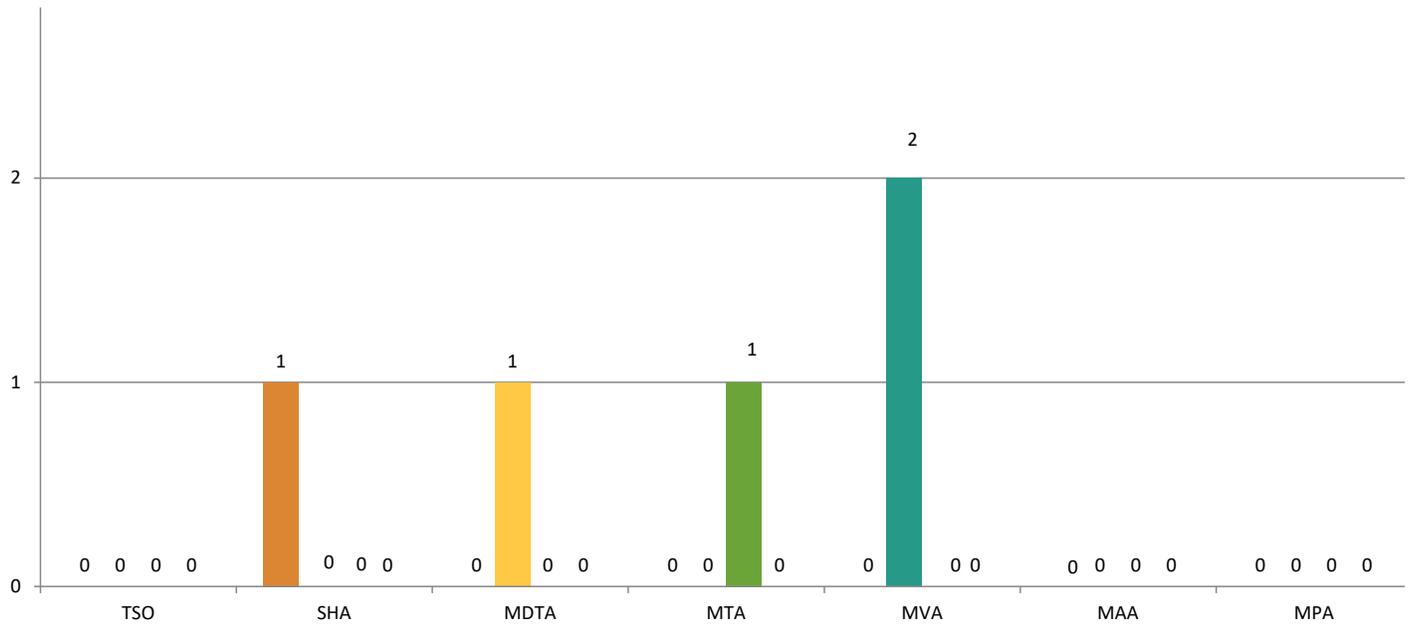




**PERFORMANCE MEASURE 2.12**

Number of Legislative Repeat Audit Findings

Number of OLA Audit Repeat Findings



**TANGIBLE RESULT DRIVER:**

Corey Stottlemeyer  
The Secretary's Office

**PERFORMANCE MEASURE DRIVER:**

Steven Watson  
Office/Division

**PURPOSE OF MEASURE:**

To track the number of fraud hotline complaints investigated by MDOT, as well as the time to respond and develop effective resolutions.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

The TSO Office of Audits maintains a spreadsheet database tracking fraud hotline complaints by source and investigations still outstanding at the time of reporting.

**NATIONAL BENCHMARK:**

N/A

**PERFORMANCE MEASURE 2.13**

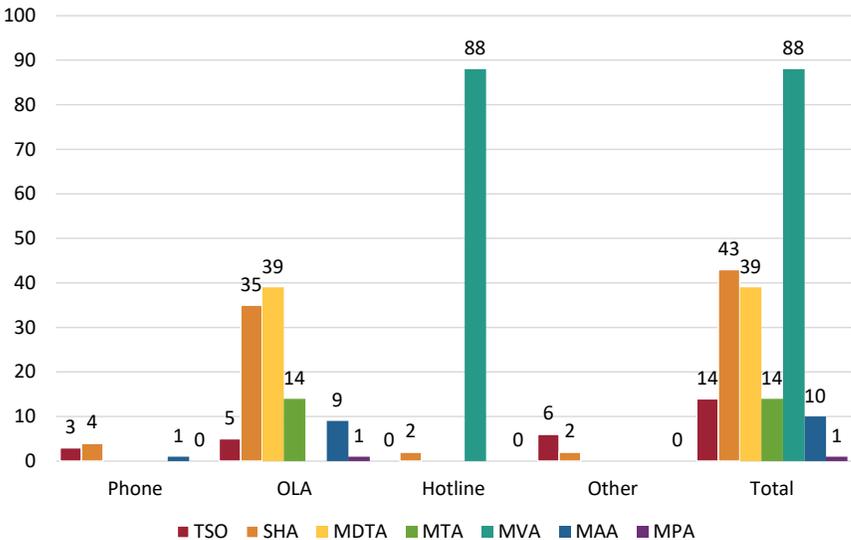
**Response to Fraud Hotline Complaints, including Response Time and Effective Resolution**

MDOT must be responsive to complaints from customers. This performance measure will track the number, response time, and effective resolution of fraud hotline complaints received or referred to MDOT.

Generally, fraud hotline complaints are received by MDOT through two sources – direct contact, or referral by the Office of Legislative Audits (OLA). OLA maintains a widely publicized fraud hotline phone number and receives many complaints. Direct contacts come via TBU hotlines, direct phone calls or letters.

During the period covered, MDOT received 209 complaints, of which 103 were referred by OLA. MVA maintains a hotline through which they received 88 complaints during the period. Some elements of the data requested of the TBUs was not previously collected making this first collection effort more challenging. Strategically working with the TBUs, the completeness and consistency of the data collected will improve.

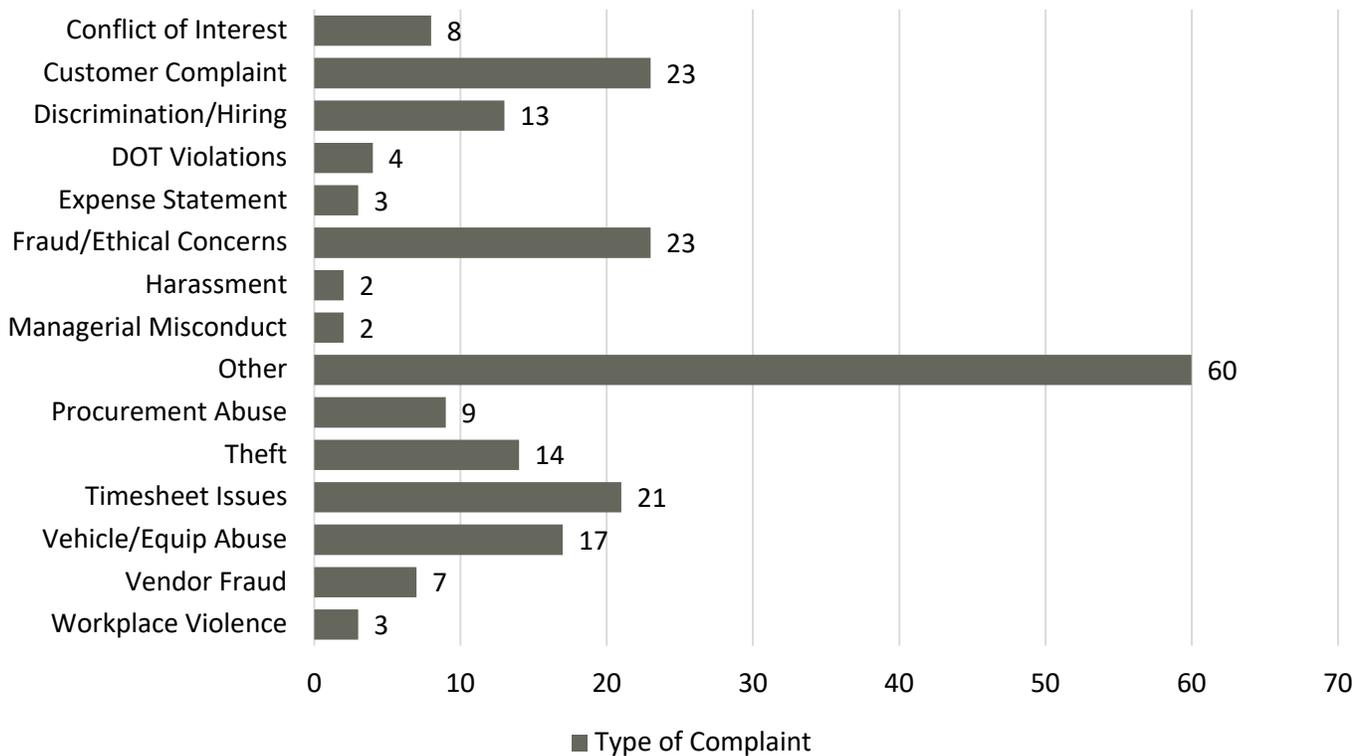
**Fraud Complaints Received by Source and TBU**



## PERFORMANCE MEASURE 2.13

Response to Fraud Hotline Complaints, including Response Time and Effective Resolution

Fraud Complaints Received by Type



### TANGIBLE RESULT #3

## Provide a Safe and Secure Transportation Infrastructure



MDOT will not compromise on our commitment to continually improve the safety and security of our customers and partners in everything we do.

#### RESULT DRIVER:

Sarah Clifford

*Maryland Transportation Authority (MDTA)*

# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation Authority  
(MDTA)

## PERFORMANCE MEASURE DRIVER:

Bud Frank  
The Secretary's Office (TSO)

## PURPOSE OF MEASURE:

To track crime trends and adjust strategies/staffing/ response to protect customers, employees, and State property.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

MTA Police and MDTA Police will report directly to Measure Driver. SHA and MVA will compile information and also report directly to Measure Driver. Measure Driver will report to Project Management Team.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 3.1

### Number of Crimes Against Persons and Property Committed at MDOT Facilities

This measure includes all Part I offenses and select Part II offenses as defined in the FBI Uniform Crime Report (UCR). The UCR is a national standard used by law enforcement for the collection and comparison of crime data nationwide. Part I offenses include homicide, forcible rape, robbery, aggravated assault, burglary, larceny, motor vehicle theft and arson. Part II offenses include less serious offenses including other assaults, vandalism, disorderly conduct, and other sex offenses.

The following charts include data for the first three quarters of Calendar Year 2016, for Part I and Part II crimes, respectively, for each of MDOT's TBUs.

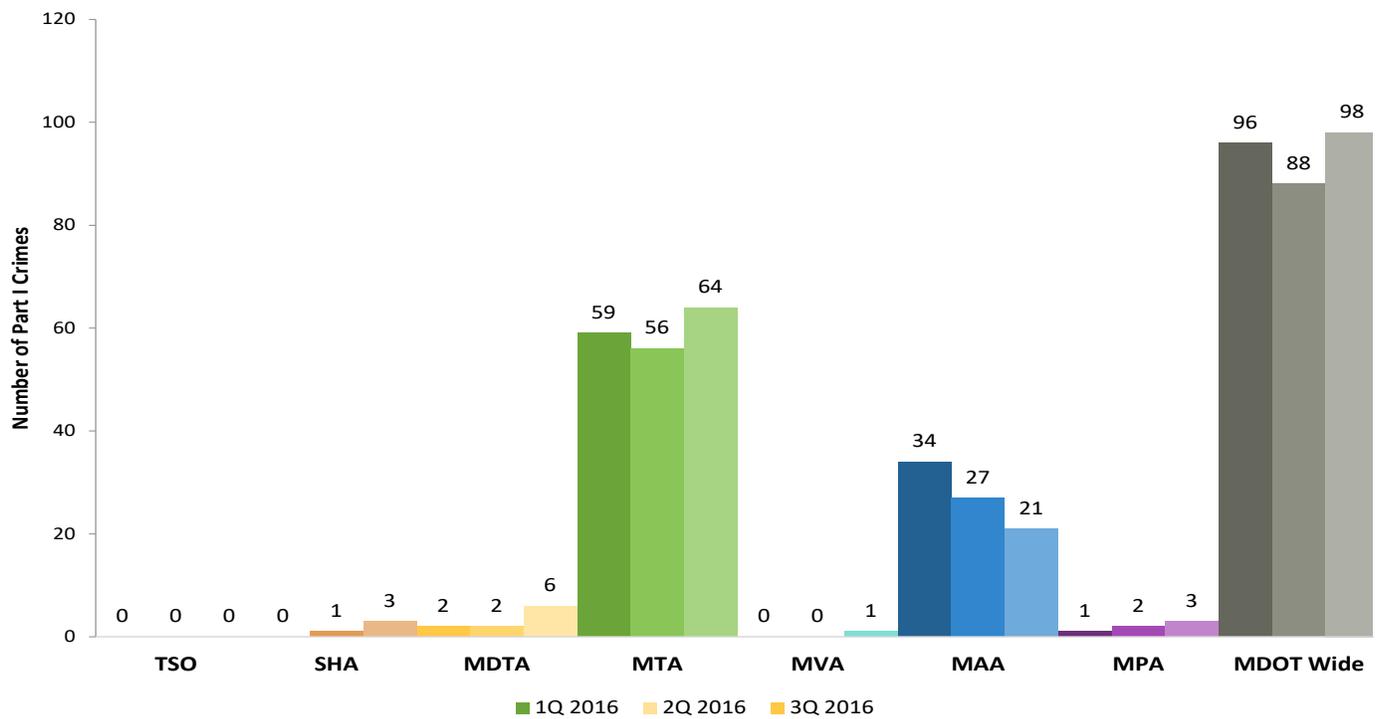


# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.1

### Number of Crimes Against Persons and Property Committed at MDOT Facilities

Quarterly Comparison Part I Crimes Against Persons

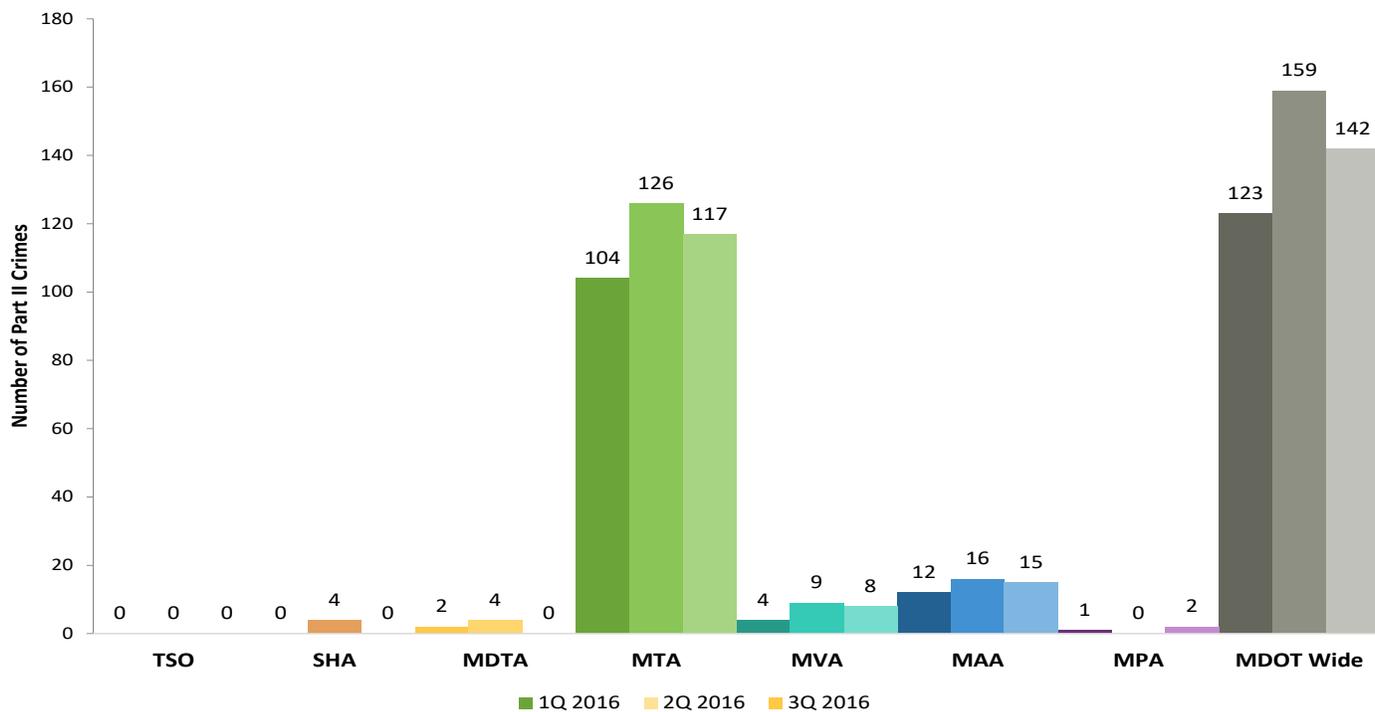


# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.1

### Number of Crimes Against Persons and Property Committed at MDOT Facilities

Quarterly Comparison Part II Crimes



# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation  
Authority (MDTA)

## PERFORMANCE MEASURE DRIVER:

Thomas Gianni  
Motor Vehicle Administration  
(MVA)

## PURPOSE OF MEASURE:

To track quarterly and annual trends in the number of persons killed in motor vehicle crashes.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Based on collected police data submitted to MSP through Automated Crash Reporting System (ACRS).

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 3.2

### Number of Traffic-Related Fatalities on All Roads

MDOT strives to implement programs that will increase driver safety by reducing traffic-related crashes that result in both serious injuries and death. One key measure is to track the number of fatalities on all roads and analyze related trends. Maryland's Strategic Highway Safety Plan (SHSP) is a comprehensive set of emphasis areas and strategies designed to reduce highway fatalities and serious injuries through the implementation of behavioral and engineering safety countermeasures. It is based on the "Toward Zero Deaths" approach to reduce fatalities by 50 percent by 2030 from the 2008 baseline of 592 fatalities. Interim goals include 475 in 2015 and 387 in 2020.

Over the past decade, there has been a significant decrease in Maryland highway fatalities. In 2014, the number of fatalities (443) was the lowest since 1948. Unfortunately this trend was reversed in 2015 with a 17.6 percent increase in highway fatalities (521); the largest single-year increase in 30 years. During the first three quarters of 2016 this trend in Maryland appears to be following the same course as the previous year with a similar number of highway deaths.

This alarming increase has also been experienced nationally as the total number of deaths on our nation's highways increased by 7.2 percent to 35,092 fatalities in 2015, the largest single increase in 50 years. The National Highway Traffic Safety Administration attributes some of the cause of this increase to relatively inexpensive gasoline, a sharp increase in miles driven and an improved economy.

According to U.S. DOT calculations, Maryland had the largest increases in Vehicle Miles Traveled (8.1 percent) from March 2015 to March 2016. Preliminary analysis of 2015 Maryland crash data indicates that factors such as impaired drivers and unbelted vehicle occupants have contributed to the increases. Likewise, increased exposure (more miles driven) may have also been a significant reason for the increase in highway fatalities.

Bicyclists typically account for approximately one percent of all fatalities annually. Bicycle fatalities hover around five to six per year. Bicycle deaths in 2015 were double the annual average (12) and have been trending slightly upward during the first three quarters of 2016.

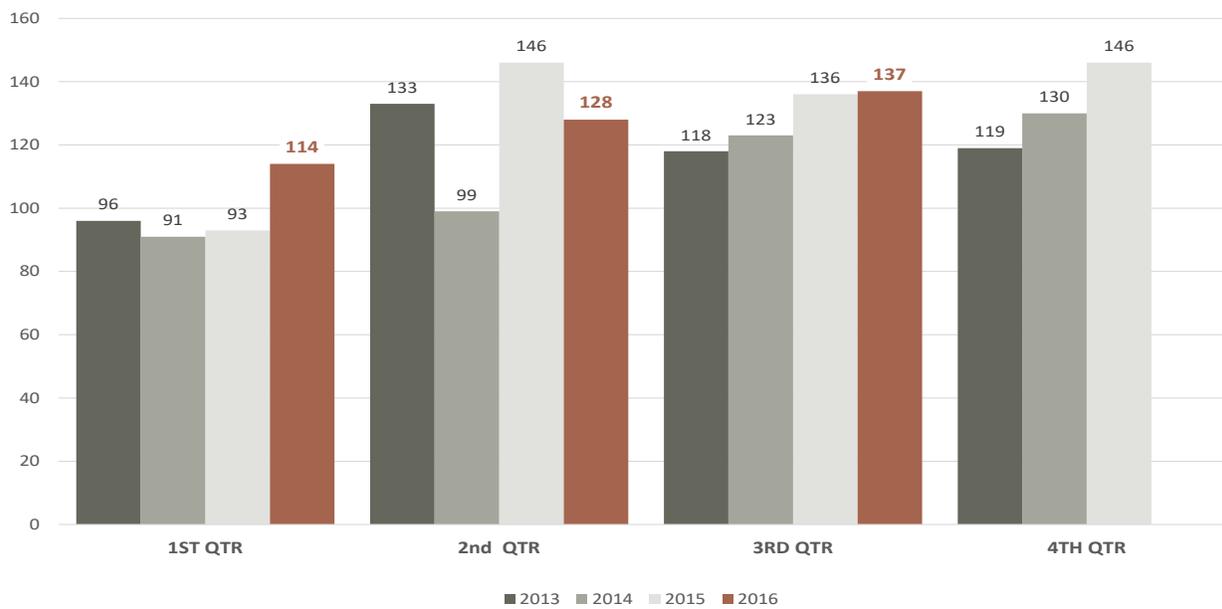
Pedestrian deaths typically account for approximately 20 percent of all traffic-related fatalities. Pedestrian fatalities consistently measure approximately 100 per year. Analysis of pedestrian fatal crashes indicates that a majority of those pedestrians were in a place where a driver would not expect them to be (e.g., not in a crosswalk). Despite a substantial increase in total highway fatalities in 2015, pedestrian crash deaths went down very slightly (99 in 2015) from the previous year and has been trending upward for the first three quarters of 2016.

# Provide a Safe and Secure Transportation Infrastructure

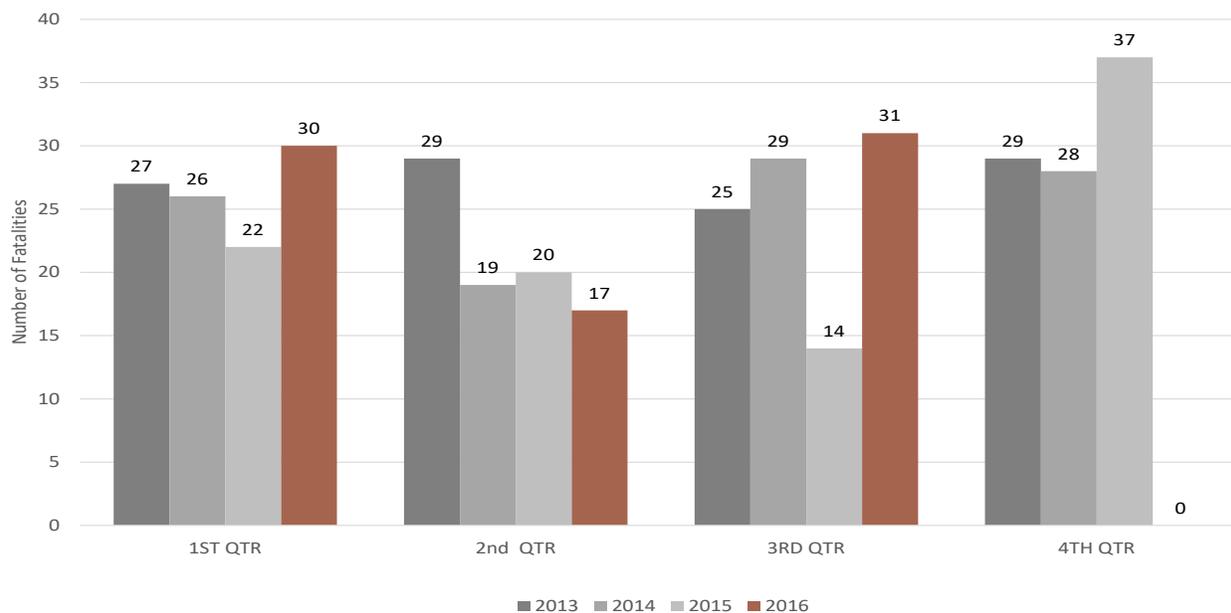
## PERFORMANCE MEASURE 3.2

### Number of Traffic-Related Fatalities on All Roads

Comparison Traffic Related Fatalities on All Roads



Quarterly Comparison Traffic Related Pedestrian Fatalities on All Roads

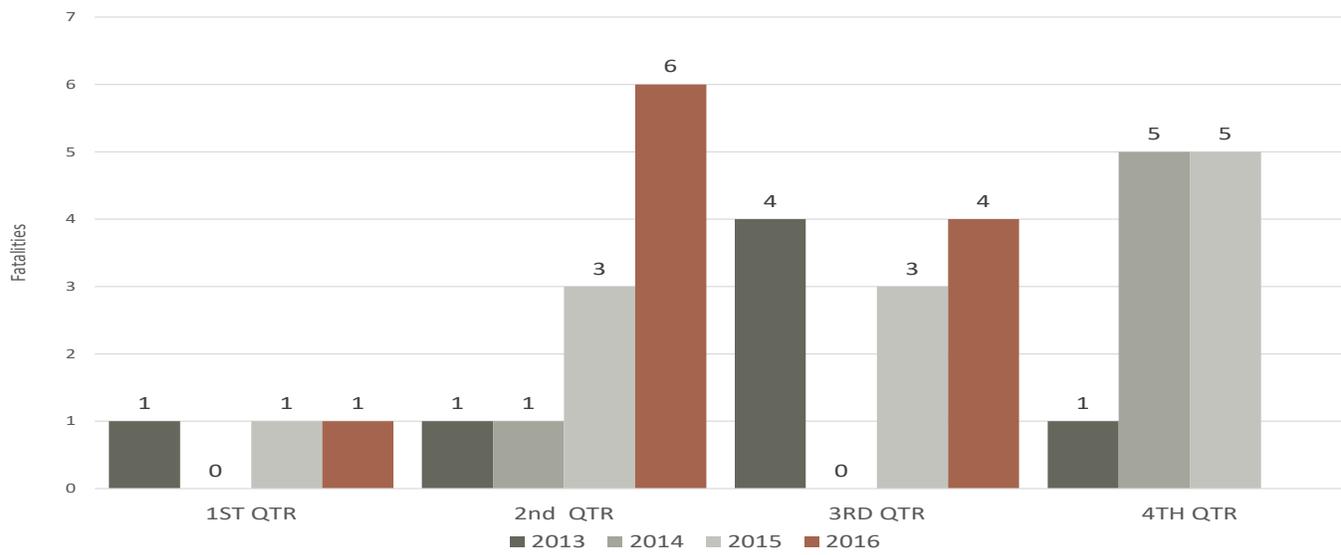


# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.2

### Number of Traffic-Related Fatalities on All Roads

CY Comparison Traffic Related Bicycle Fatalities on All Roads



# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation Authority  
(MDTA)

## PERFORMANCE MEASURE DRIVER:

Thomas Gianni  
Motor Vehicle Administration (MVA)

## PURPOSE OF MEASURE:

To track trends in the number of persons killed in motor vehicle crashes per vehicle miles traveled (VMT).

## FREQUENCY:

Annually (in January)

## DATA COLLECTION METHODOLOGY:

Traveled (VMT) data based on highway counts on roadways across the state. Fatality data is collected by the Maryland State Police (MSP) through its Automated Crash Reporting System (ACRS). The Maryland Highway Safety Office (MHSO) collects the data from these two agencies.

## NATIONAL BENCHMARK:

National Highway Fatality Rate of 1.07 in 2014

## PERFORMANCE MEASURE 3.3

### Maryland Traffic-Related Fatality Rate (Highways)

The fatality rate is affected by two distinctly different measures: a) the number of persons killed in a traffic-related crash, and b) the amount of Vehicle Miles Traveled (VMT) on all roads in the state. Maryland's fatality rate compares favorably to the national fatality rate. While the U.S. fatality rate has never dipped below one death per 100 million VMT, Maryland's rate has remained below one for the past seven years. Although this rate had been trending downward, it increased in 2015 to .91 fatalities per 100 million VMT. This increase corresponds with the significant increase in traffic-related fatalities in Maryland in 2015. Despite this increase, Maryland's rate remained below the national rate of 1.12 in 2015.

Maryland's SHSP is a comprehensive set of emphasis areas and strategies designed to reduce highway fatalities and serious injuries through the implementation of behavioral and engineering safety countermeasures. It is based on the "Toward Zero Deaths" approach to reduce fatalities (and the associated fatality rate) by 50 percent by 2030 from the 2008 baseline of 592 fatalities.

While behavioral and engineering efforts may affect the number of persons killed annually, the VMT is most affected by the state of the economy. Historically, as the nation's and/or the state's economy grows people tend to drive more, increasing both the state's VMT and a person's risk for being in a crash. Opportunities to lower the fatality rate are best achieved by decreasing the number of traffic-related fatalities, as VMT is more difficult to influence.

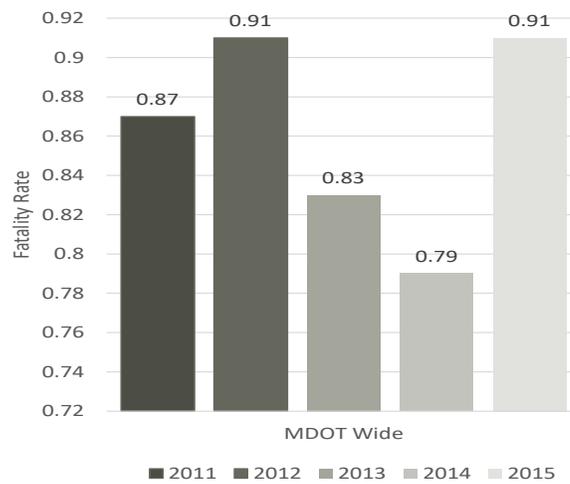


# Provide a Safe and Secure Transportation Infrastructure

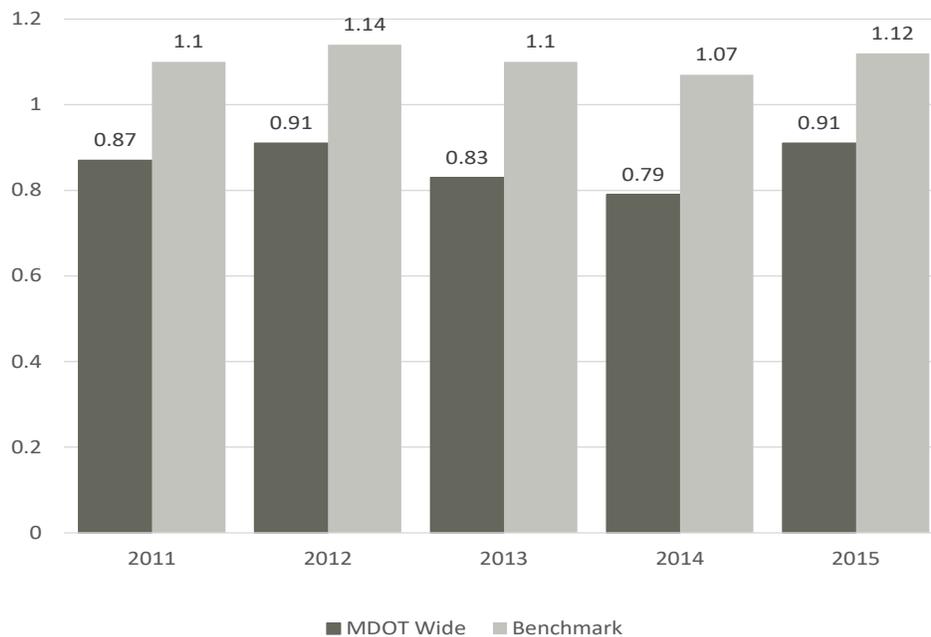
## PERFORMANCE MEASURE 3.3

### Maryland Traffic-Related Fatality Rate (Highways)

Maryland Traffic Related Fatality Rate



Traffic Related Fatality Rate Maryland v Benchmark



# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation Authority  
(MDTA)

## PERFORMANCE MEASURE DRIVER:

Thomas Gianni  
Motor Vehicle Administration (MVA)

## PURPOSE OF MEASURE:

To track quarterly and annual trends in the number of persons seriously injured in motor vehicle crashes.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Based on collected police data submitted to MSP through Automated Crash Reporting System (ACRS).

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 3.4

### Number of Traffic-Related Serious Injuries on all Roads

The number of traffic-related serious injuries is a count of persons sustaining an incapacitating injury in a crash. It is determined by a responding police officer investigating the crash and gathered from the injury severity code entered on the crash report. Maryland's SHSP is based on the "Toward Zero Deaths" approach: to reduce fatalities and serious injuries from traffic-related crashes by 50 percent by 2030 from the 2008 baseline. Serious Injury Goals have been set with a similar methodology. Interim Goals include 2015: 3,945; and 2020: 2,939. Strategies for reducing the crashes that cause both fatal and serious injuries are contained within the six main emphasis areas of the SHSP.

Over the past 10 years there has been a significant decrease in traffic-related serious injuries, including a 33 percent decline since 2008. After a slight rise in crash related serious injuries in 2014 (to 3,053 from 2,961 in 2013), data indicates another significant decrease in the number of serious injuries reported in 2015 (2,605).

Through the first three quarters of 2016 preliminary data seems to indicate that while the number of fatalities in 2015 and 2016 have increased significantly, serious injuries have either stayed relatively the same or continued the downward trend. With the institution of new electronic crash reporting in 2015, epidemiologists are working to determine if this downward trend is valid or an anomaly of the reporting itself.

Since fatality data is only a small portion of the entire crash picture in Maryland, serious injuries, and their frequency, help to provide more robust data in determining crash trends across the State. Additionally, striving to minimize crashes that result in serious injuries serves to reduce a motorist's risk for suffering their accompanying life-altering consequences.

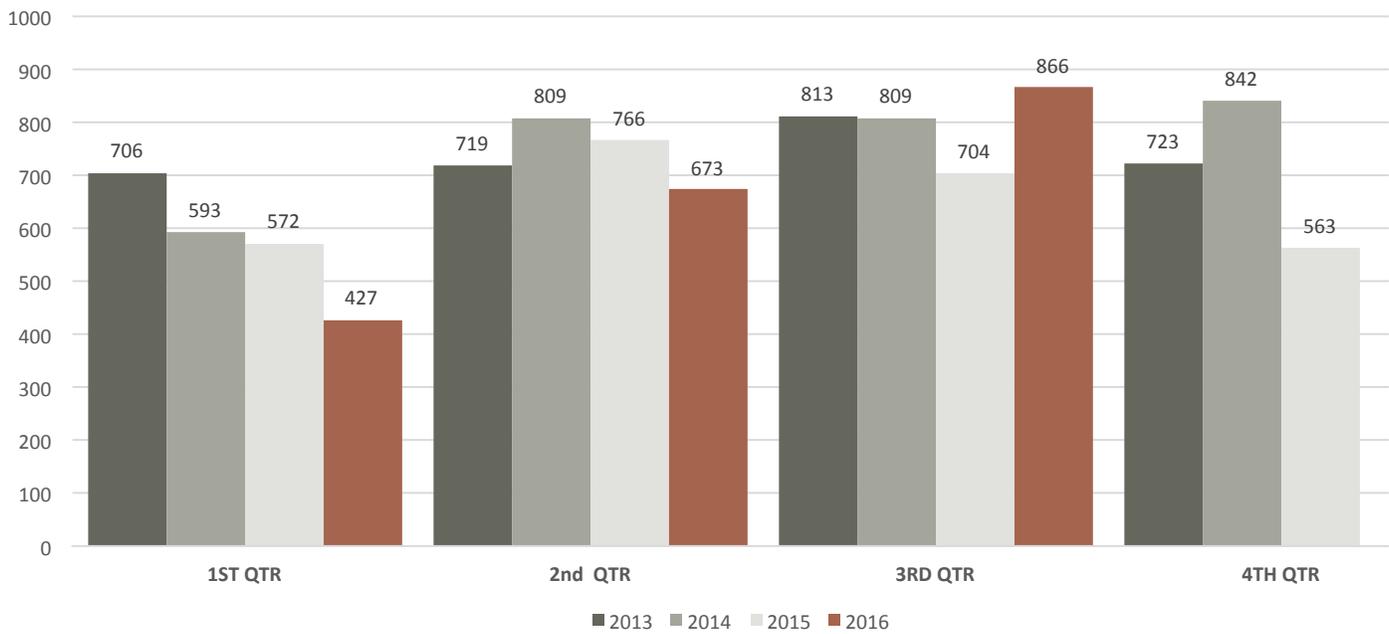
Since serious injuries are defined differently from state-to-state there is no national or common benchmark.

# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.4

### Number of Traffic-Related Serious Injuries on all Roads

Comparison Traffic Related Serious Injuries on All Roads

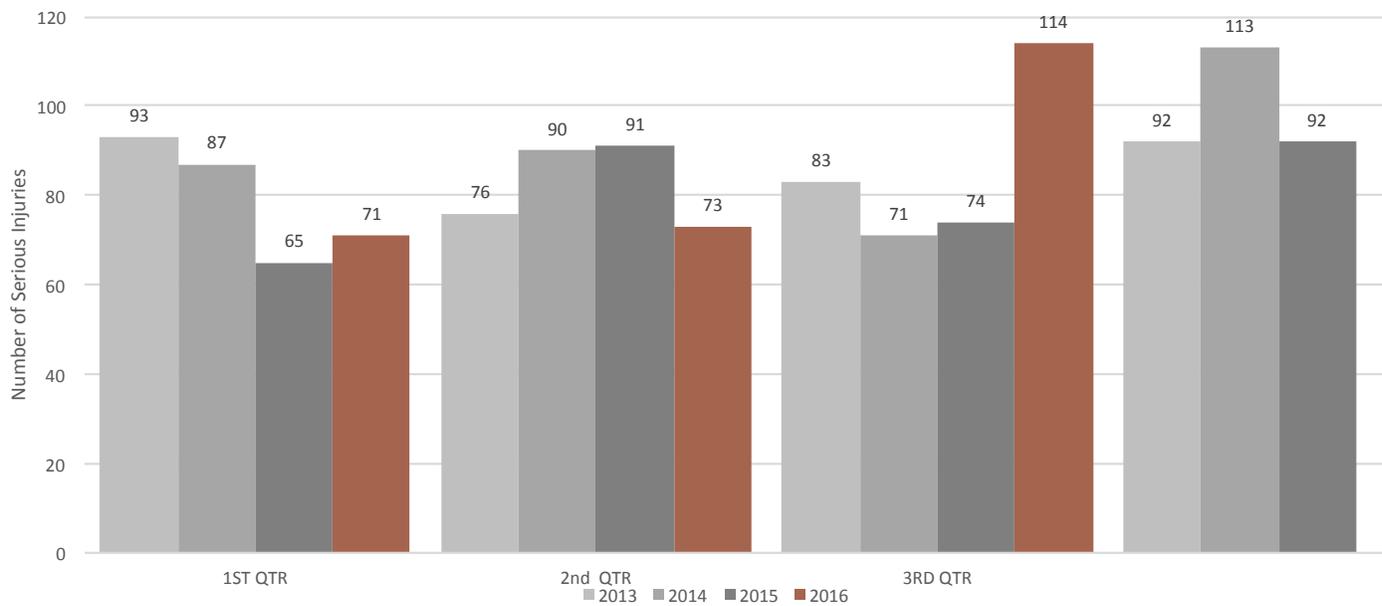


# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.4

Number of Traffic-Related Serious Injuries on all Roads

Pedestrian Serious Injuries Quarterly Comparison CY 2016

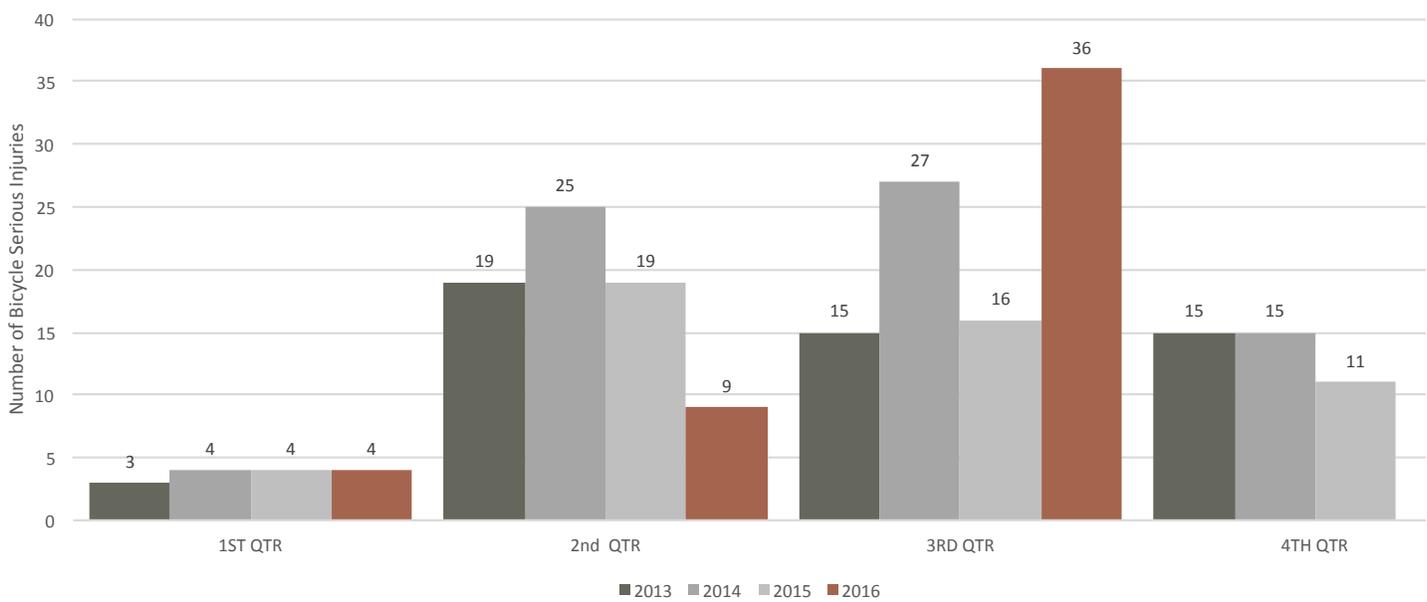


# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.4

### Number of Traffic-Related Serious Injuries on all Roads

Traffic Related Bicycle Serious Injuries Quarterly Comparison



# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation Authority  
(MDTA)

## PERFORMANCE MEASURE DRIVER:

Thomas Gianni  
Motor Vehicle Administration (MVA)

## PURPOSE OF MEASURE:

To track trends in the number of persons seriously injured in motor vehicle crashes per VMT.

## FREQUENCY:

Annually (in January)

## DATA COLLECTION METHODOLOGY:

State Highway Administration collects VMT data based on highway counts on roadways across the state. The serious injury data is collected by the Maryland State Police (MSP) through its Automated Crash Reporting System (ACRS). The Maryland Highway Safety Office (MHSO) collects the data from these two agencies. The rate is based on persons seriously injured in crashes per 100 VMT.

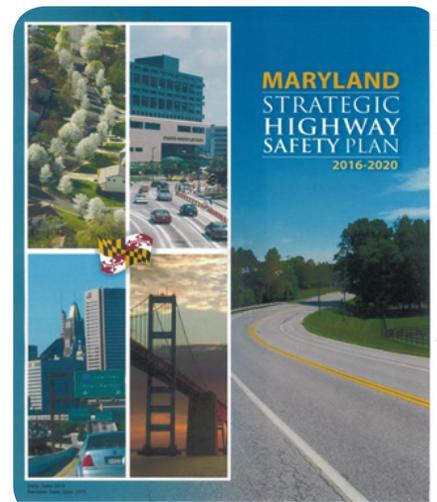
## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 3.5

### Maryland Traffic-Related Serious Injury Rate (Highways)

Maryland's serious injury rate is based on a similar measure as the fatality rate (number of persons seriously injured in a traffic-related crash per 100 million VMT). Over the past eight years both the number of serious injuries and the corresponding rate have dropped dramatically, by over 33 percent. The SHSP is based on the "Toward Zero Deaths" approach, and Serious Injury Rate goals have been set with a similar methodology. The SHSP interim goal for the Serious Injury Rate is 5.21 by the year 2020.



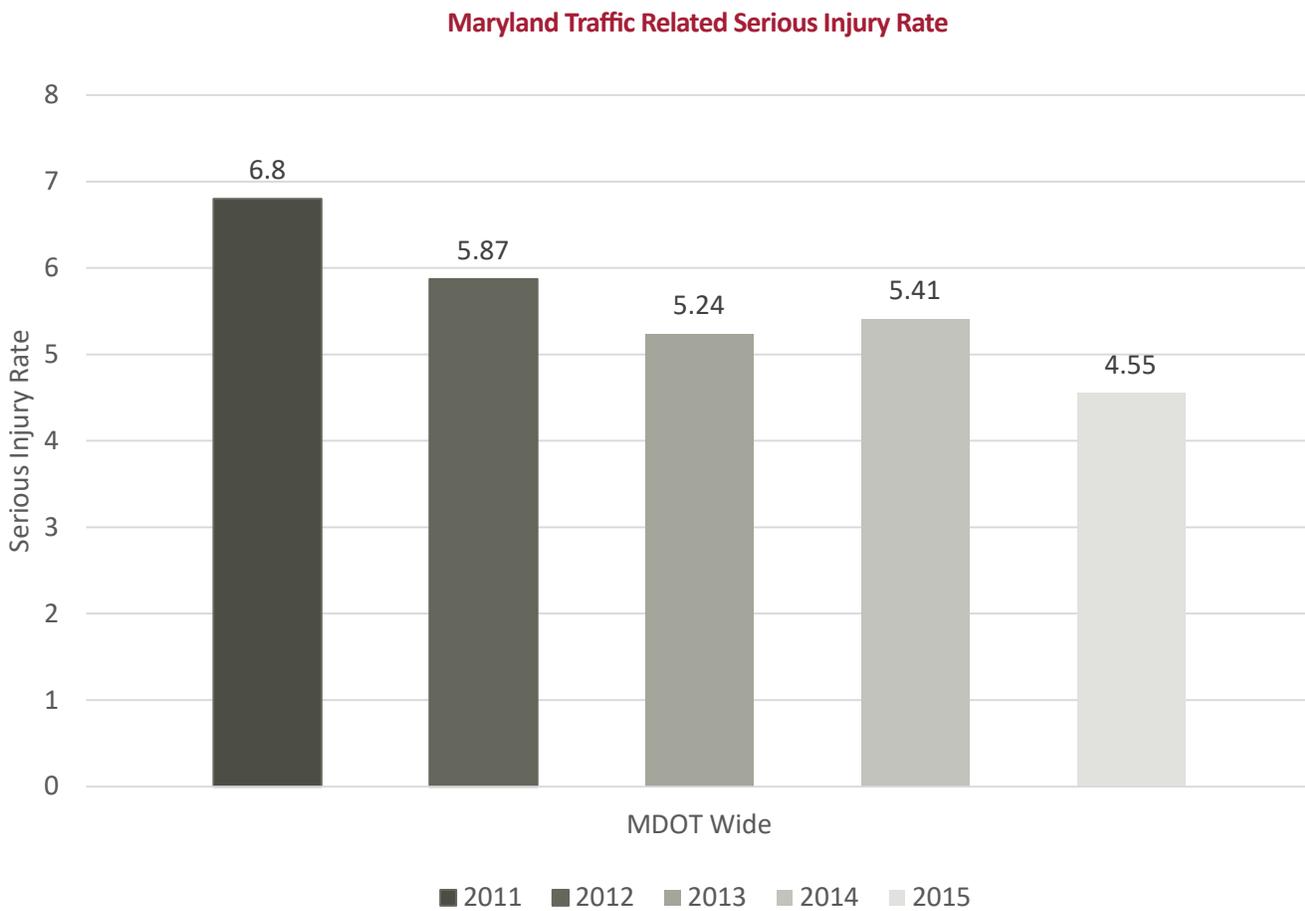
The serious injury rate is determined by the same measurements used to determine the fatality rate: VMT and number of persons seriously injured in a traffic-related crash.

As engineering advances have resulted in safer vehicles and safer highways, and emergency medical services continue to provide immediate critical care, it might be expected that a reduction in fatality rates would result in a corresponding increase in the serious injury rate. Over the past several years however this has not been the case in Maryland, as both the number of traffic-related fatalities and serious injuries (and their corresponding rates) have declined significantly. Even in 2015 when traffic-related fatalities increased significantly, the number of crash related serious injuries and its corresponding rate continued to decline.

# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.5

### Maryland Traffic-Related Serious Injury Rate (Highways)



# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation Authority  
(MDTA)

## PERFORMANCE MEASURE DRIVER:

Gina Watson  
Maryland Port Administration (MPA)

## PURPOSE OF MEASURE:

To track trends in seat belt use in Maryland and assess how Maryland ranks against the national rate as an indicator of how well seatbelt use is encouraged.

## FREQUENCY:

Annually (in January)

## DATA COLLECTION METHODOLOGY:

Observational Survey conducted by MVA Maryland Highway Safety Office (MHSO).

## NATIONAL BENCHMARK:

Nationwide rate provided by National Highway Traffic Safety Administration (NHTSA) reached 90.1 percent in 2016.

## PERFORMANCE MEASURE 3.6

### Maryland Seat Belt Usage Rate

The use of seat belts greatly reduces the severity of personal injury and occupant fatalities in crashes. States with primary and secondary seat belt enforcement laws exhibit higher seat belt usage rates.

Maryland's seat belt usage rate is collected by an observational survey methodology approved by the NHTSA. Maryland's 2016 preliminary seat belt survey usage rate is 90.8 percent versus 92.9 percent in 2015. However, NHTSA's study shows a national increase in belt use at 90.1 percent in 2016 versus 88.5 percent in 2015.

The Maryland Highway Safety Office goal for seat belt usage for 2016 was 93.4 percent. Preliminary survey data indicates the stated goal experienced a 2.6 percent shortfall.

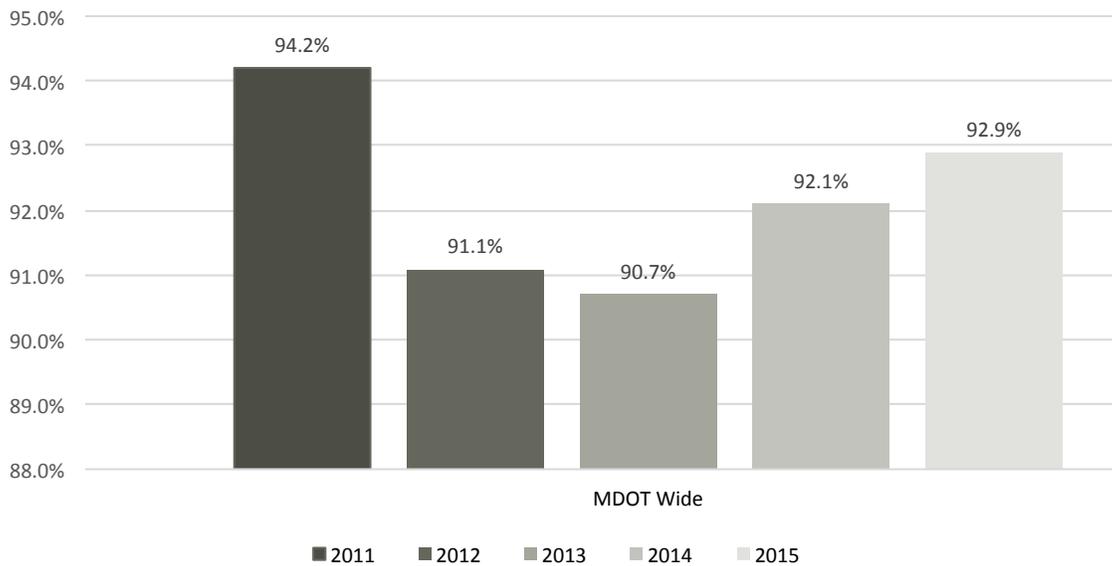


# Provide a Safe and Secure Transportation Infrastructure

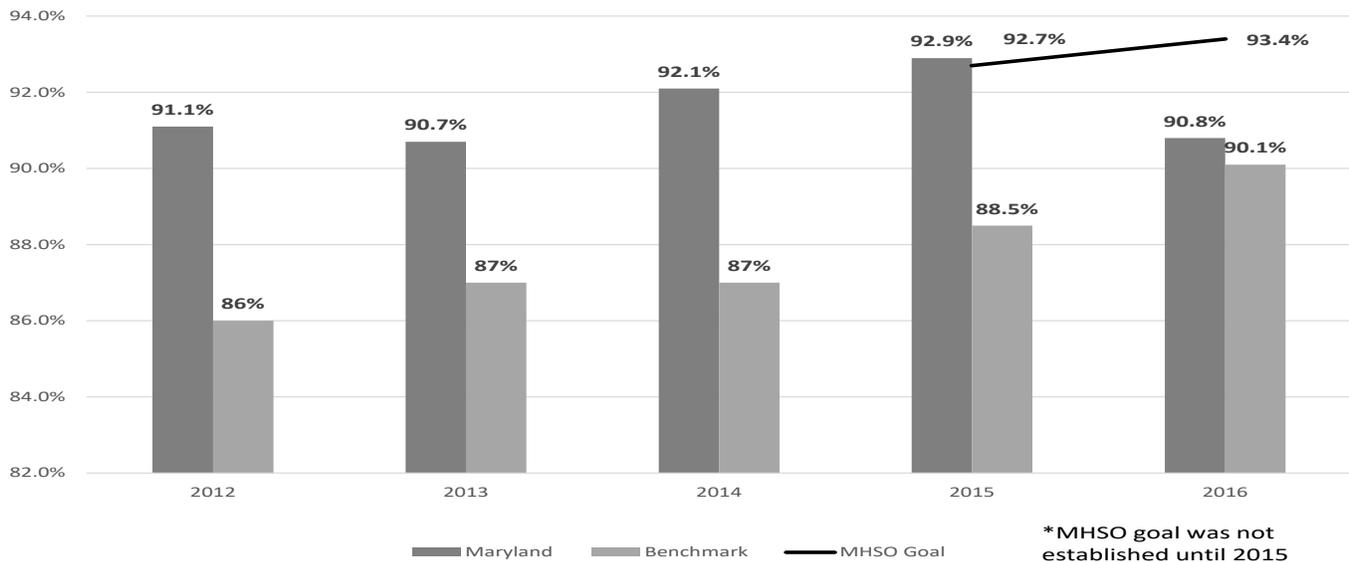
## PERFORMANCE MEASURE 3.6

### Maryland Seat Belt Usage Rate

Seatbelt Usage Rate



Seatbelt Usage Maryland vs Benchmark



# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation Authority  
(MDTA)

## PERFORMANCE MEASURE DRIVER:

Cedric Ward  
State Highway Administration (SHA)

## PURPOSE OF MEASURE:

To track and assess the performance of MDOT's incident management programs to respond to customer needs while traveling.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Data is collected from centralized reporting to CHART for roadway data. MPA and MAA data are collected individually.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 3.7

### Disabled Motorist Assisted by MDOT

The Coordinated Highways Action Response Team (CHART) is a joint effort of MDOT, the Maryland State Police, and numerous other Federal, State and local agencies. CHART provides assistance to disabled motorists and responds to traffic incidents throughout Maryland. In the Baltimore and Washington metropolitan areas, patrols are operated 24 hours per day, seven days per week. In addition to services on highways, the MPA and MAA provide assistance to their customers who experience vehicle issues. These services provide an added value to MDOT customers who might otherwise need to rely on paid service providers.

As of 2016 Q3, MDOT has helped 60,628 disabled motorists. We saw an increase in assists and responses between second and third quarters MDOT wide. Additionally, CHART provides real-time traffic conditions through its website: <http://www.chart.state.md.us/>.

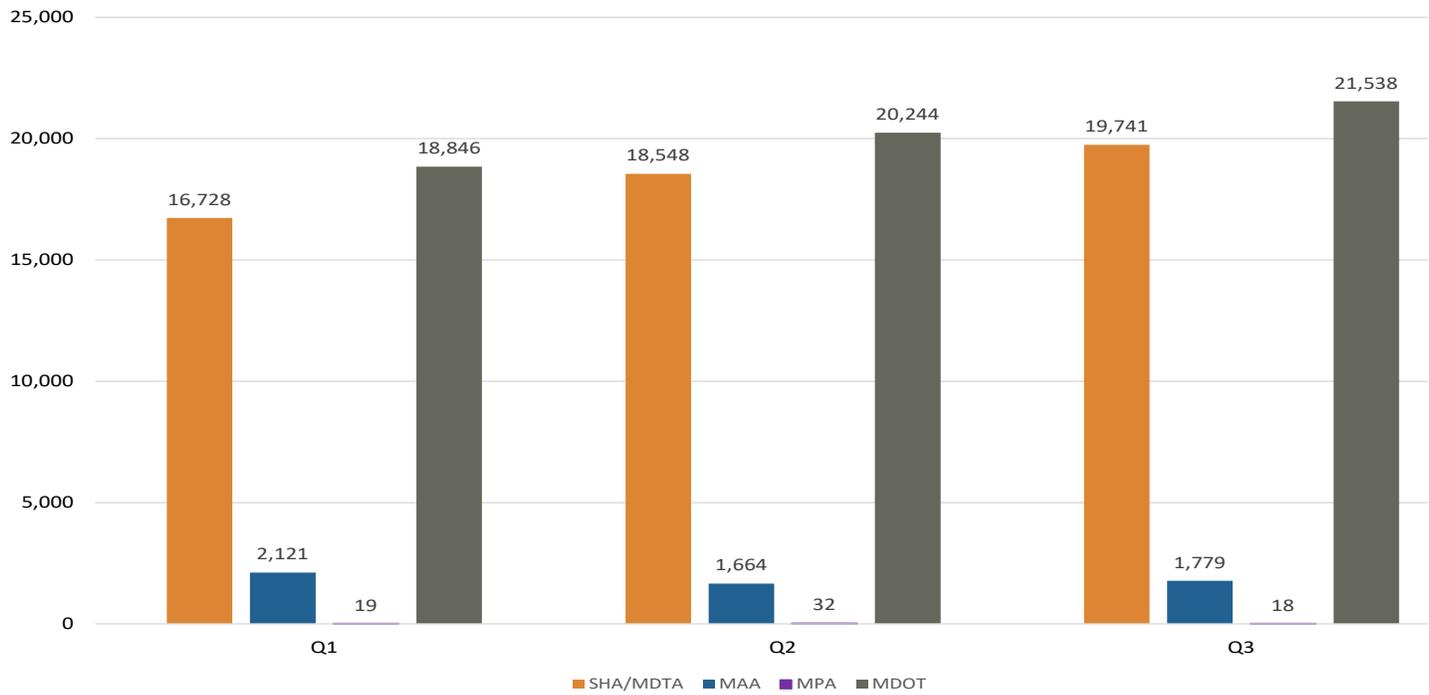


# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.7

### Disabled Motorist Assisted by MDOT

CY 2016 Number of Assists and Responses



# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation Authority  
(MDTA)

## PERFORMANCE MEASURE DRIVER:

Cedric Johnson  
Maryland Aviation Administration  
(MAA)

## PURPOSE OF MEASURE:

To track injury reporting trends at MDOT TBUs.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Collected by Chesapeake Employers' Insurance (formerly Injured Workers Insurance Fund (IWIF)) and sent to agencies as a report.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 3.8

### Number of Employee Injuries Reported (First Report of Injury)

This measure includes all first reports of injury (FROI) to the Chesapeake Employers' Insurance (formerly Injured Workers Insurance Fund (IWIF)). This is a 1st quarter comparison of FY 2016 versus FY 2017. Data indicates a slight increase during FY 2017 in the number of employee injuries reported. The data from the injury reports are used for analysis and the development and implementation of risk mitigation strategies and employee training programs. Strategies for reducing employee injuries include the timely submission of injury reports.

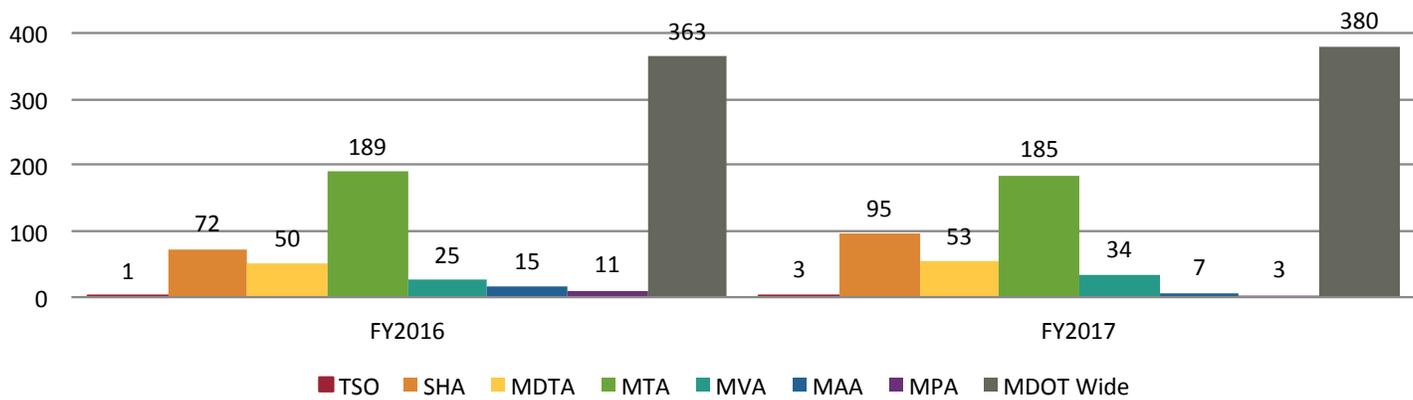


# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.8

Number of Employee Injuries Reported  
(First Report of Injury)

Reporting Number of Injuries (FROI) Reported  
3 Months FY 2016 (7/1 - 9/30) vs. 3 Months FY 2017 (7/1 - 9/30)

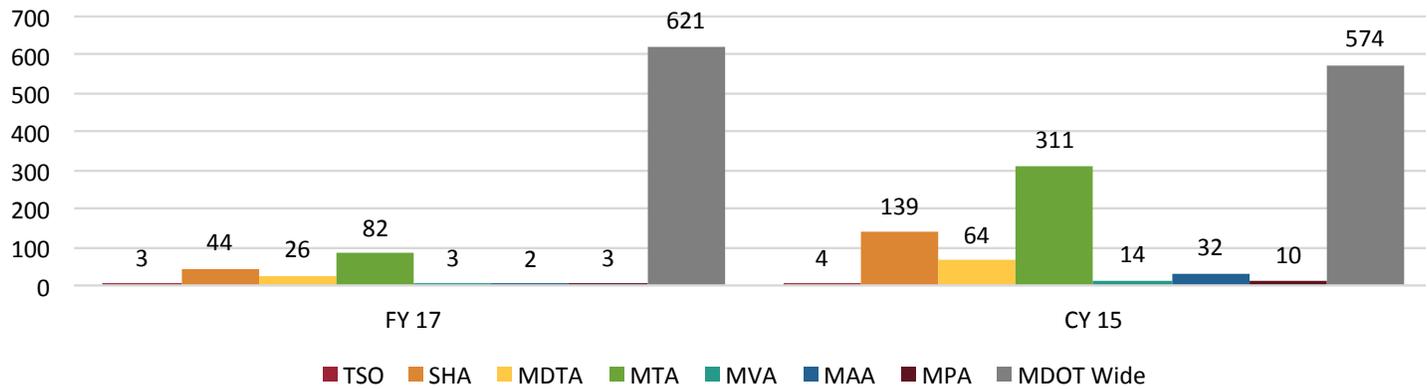


# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.8

Number of Employee Injuries Reported  
(First Report of Injury)

Reporting Speed - Within 24 hours of occurrence



# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation Authority  
(MDTA)

## PERFORMANCE MEASURE DRIVER:

Cedric Johnson  
Maryland Aviation Administration  
(MAA)

## PURPOSE OF MEASURE:

To track, trend, and mitigate lost work days.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Data is collected through multiple MDOT timekeeping systems.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 3.9

### Number of Employee Lost Work Days Due to Injuries

Employee safety is a top priority to MDOT. However, injuries do occur on the job and work days are sometimes lost as a result. Lost work days reduce the effectiveness of TBUs and are an indirect measure of employee health and welfare. Safety practices such as personal protective equipment, safety training, and safety policies are employed to reduce employee injuries and lost work days.

This measure only includes lost work days due to on the job, work-related injuries. Note that lost work days are associated with the number of injuries reported in Performance Measure 3.8. Factors affecting this measure include varying work conditions and environments, and differing risk profiles amongst employees across TBUs, as well as inconsistent leave coding policies and practices across MDOT's payroll systems.

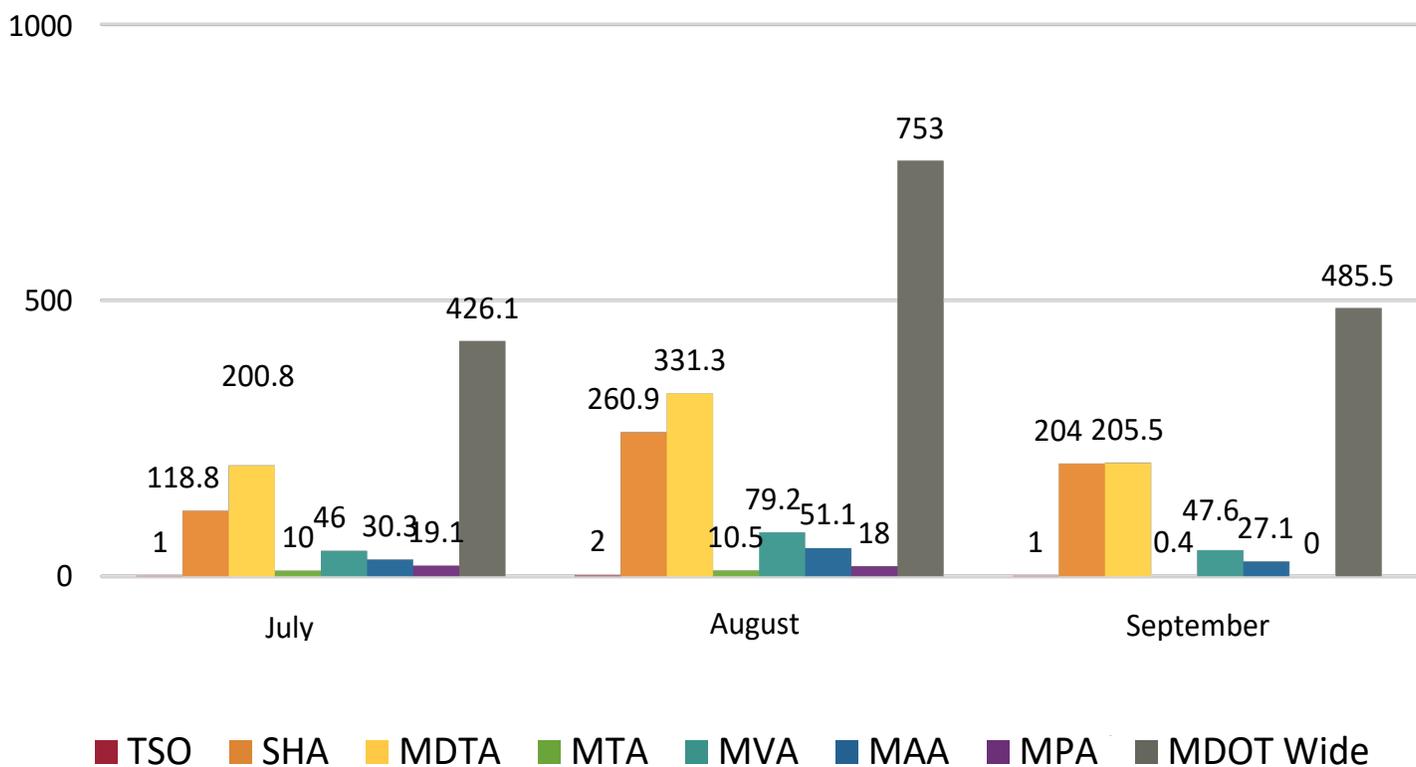
This is a 1st quarter comparison of FY 2016 versus FY 2017. Data indicates a FY 2017 increase in the number of lost work days due to injuries. It is important to note that there are varying work environments, inconsistent employee injury leave policies and two (2) separate payroll systems.

# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.9

### Number of Employee Lost Work Days Due to Injuries

FY17 1st Quarter Number of Work Injury Days Used

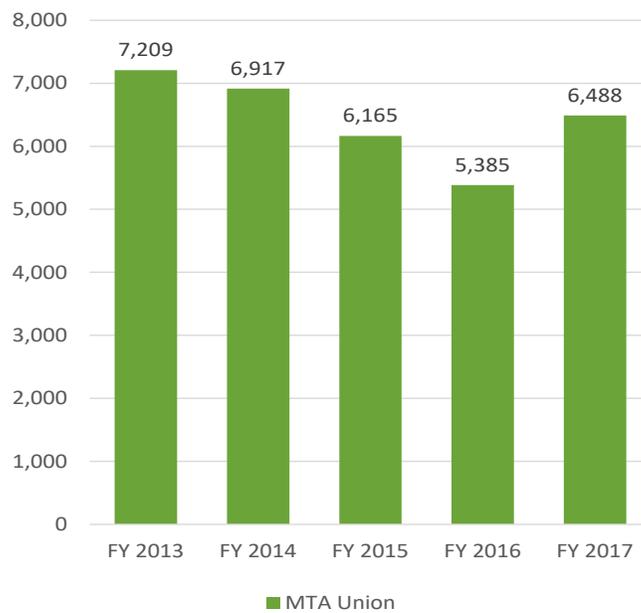


# Provide a Safe and Secure Transportation Infrastructure

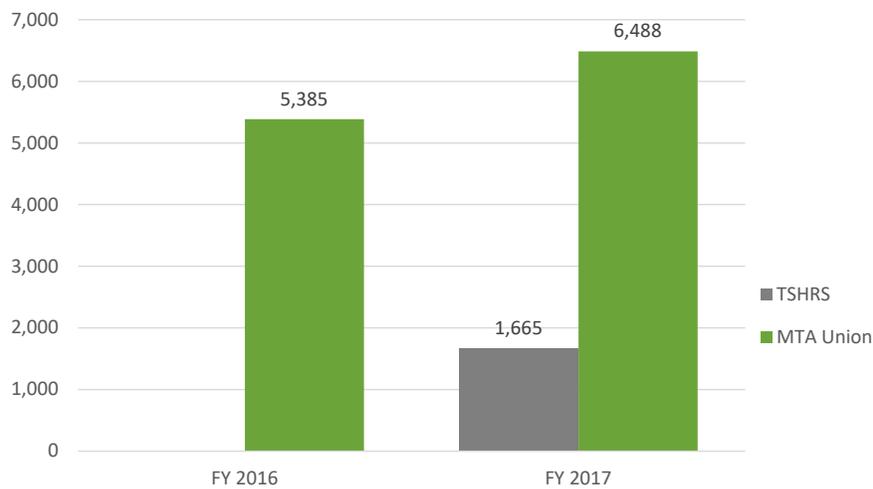
## PERFORMANCE MEASURE 3.9

### Number of Employee Lost Work Days Due to Injuries

Lost Work Days Due to Injuries



Number of Work Injury Days Used TSHRS v MTA Union

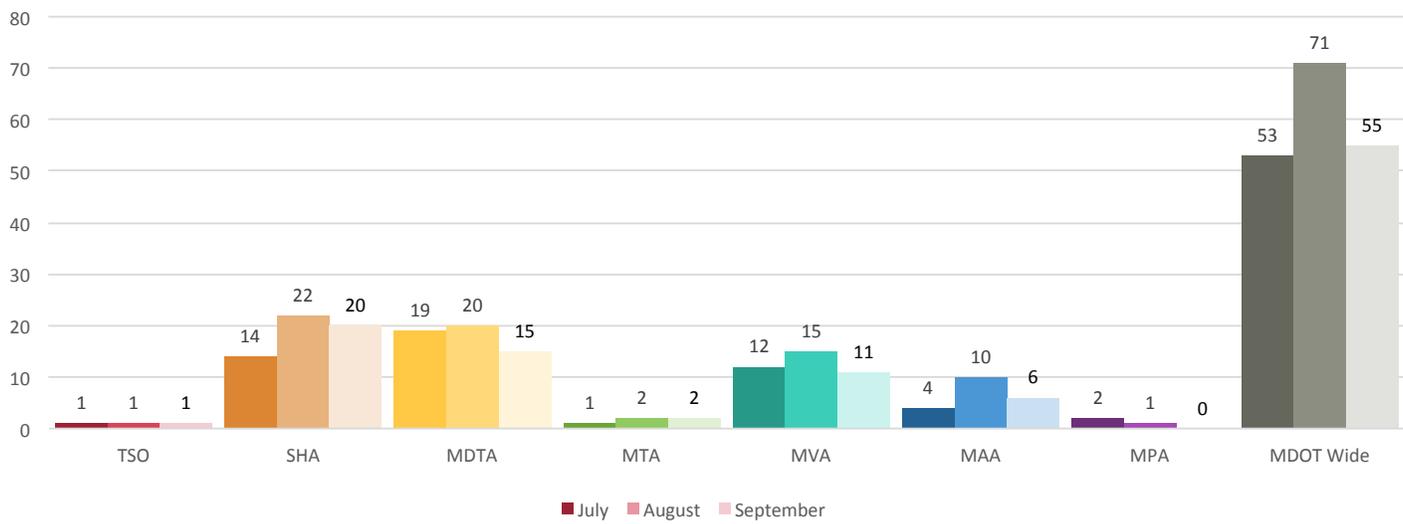


# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.9

### Number of Employee Lost Work Days Due to Injuries

Number of Employees Coding LY (Work Injury) FY17 1st Quarter (July, August, September)



# Provide a Safe and Secure Transportation Infrastructure

## TANGIBLE RESULT DRIVER:

Sarah Clifford  
Maryland Transportation Authority  
(MDTA)

## PERFORMANCE MEASURE DRIVER:

Phil Thomas  
Maryland Transit Administration (MTA)

## PURPOSE OF MEASURE:

To track customer incidents within MDOT facilities where customers are rendered a service to ensure our customers that MDOT facilities are safe for our customers.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

TBUs track using their existing processes and report to the driver via phone or email.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 3.10

### Number of Customer Incidents at MDOT Facilities

MDOT has programs in place to ensure the safety and security of its facilities and its customers. This is still a new measure and we are working with each TBU to ensure that customer incidents are being tracked. This measure has allowed for some TBUs to implement new programs and processes to ensure customer incident tracking is occurring. An example is identifying and tracking the number of incidents at MDOT facilities where we conduct business. Identifying and tracking incidents and associated trending offers data for the basis of implementing corrective actions; thereby reducing hazards and minimizing risk for MDOT and our customers.

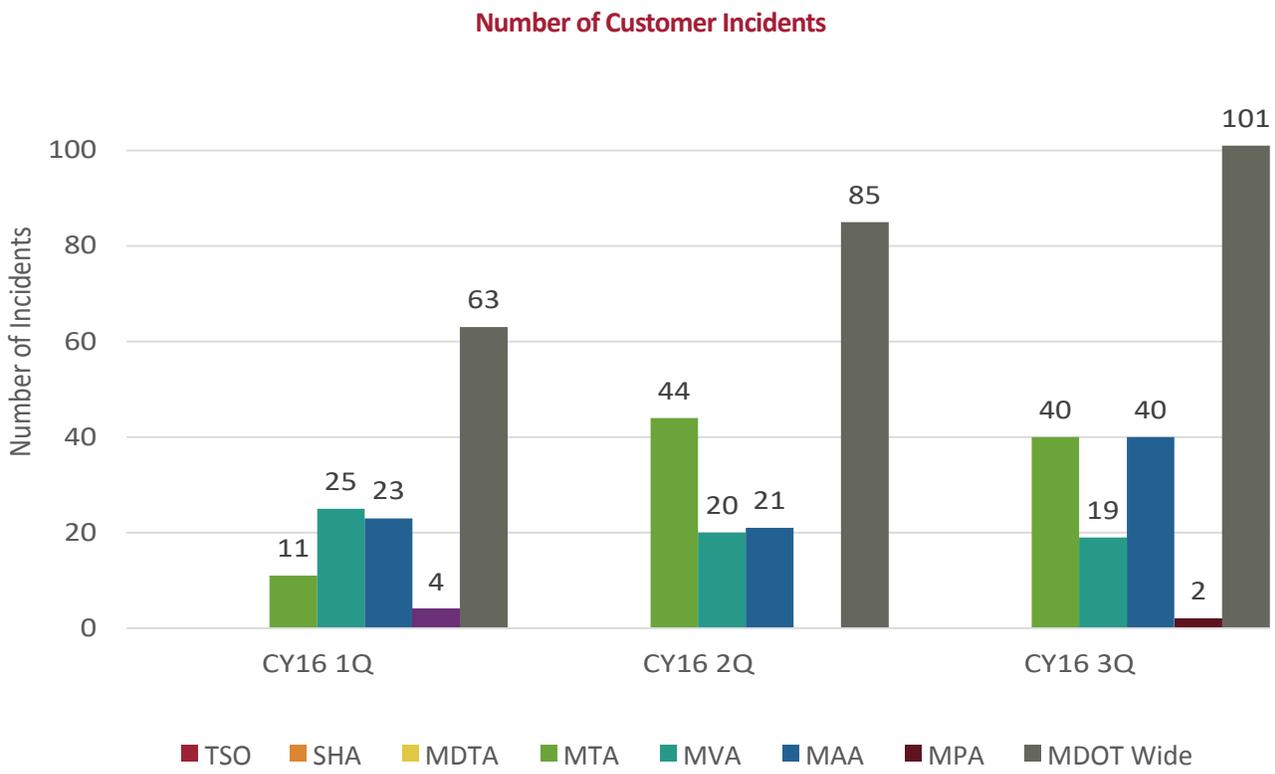
It is important for MDOT to provide customers safe areas and facilities to complete their day to day transportation needs. MDOT understands the importance of mitigating and reducing all hazards.



# Provide a Safe and Secure Transportation Infrastructure

## PERFORMANCE MEASURE 3.10

### Number of Customer Incidents at MDOT Facilities



## TANGIBLE RESULT #4

# Deliver Transportation Solutions and Services of Great Value



MDOT will deliver transportation solutions on time and within budget. We will use strategies to ensure that the transportation solution meets the needs of our customers and eliminates unnecessary costs.

### RESULT DRIVER:

Jason Ridgway  
State Highway Administration (SHA)

# Deliver Transportation Solutions and Services of Great Value

## TANGIBLE RESULT DRIVER:

Jason Ridgway

*State Highway Administration (SHA)*

## PERFORMANCE MEASURE DRIVER:

Terri Lins

*Motor Vehicle Administration (MVA)*

## PURPOSE OF MEASURE:

To gauge the accuracy of capital project estimates in order to more efficiently manage the Department's capital program.

## FREQUENCY:

Annually (In October)

## DATA COLLECTION METHODOLOGY:

Through the Capital Program Management System (CPMS); the CTP; TSO & TBU's Procurement Offices.

## NATIONAL BENCHMARK:

14% Nat'l Average –as reported in the NCHRP Report 20-24 (37) A (01) , 04/2011 which focuses on construction schedule & budget performance.

## PERFORMANCE MEASURE 4.1

### Percent of Estimated Project Budget as Compared to Final Project Award

The Consolidated Transportation Plan (CTP) is the 6 year investment plan for MDOT and its six TBUs. The CTP solidifies the Department's planned projects and programs, both major and minor. The plan is built working with stakeholders such as Maryland citizens, local jurisdictions and the local and State delegations.

The purpose of this measure is to track the percent difference between the estimated project budget as compared to the amount given in the awarded contract. This is a valuable measure as it fosters more accuracy and better budget management of the State's limited transportation funding.

Accurate estimating enables MDOT to provide better services to its customers whether it is infrastructure improvements to Maryland roadways and bridges; increasing and retaining the commerce going in / out of the Port of Baltimore; attracting / retaining airlines and travelers at BWI Marshall; providing more alternative service options to Maryland citizens to conduct their MVA transaction remotely; or improving Maryland's transit services throughout the State.

Given the diverse contract types e.g., highway construction vs information technology (IT) software development, the data has been divided into (3) groups by project similarity, e.g., IT (MVA, TSO). The following graphs represent TBU data for FY's 14, 15 & 16 using similar projects within the capital budgets that best represent the business units' financial thresholds for capital projects as follows:

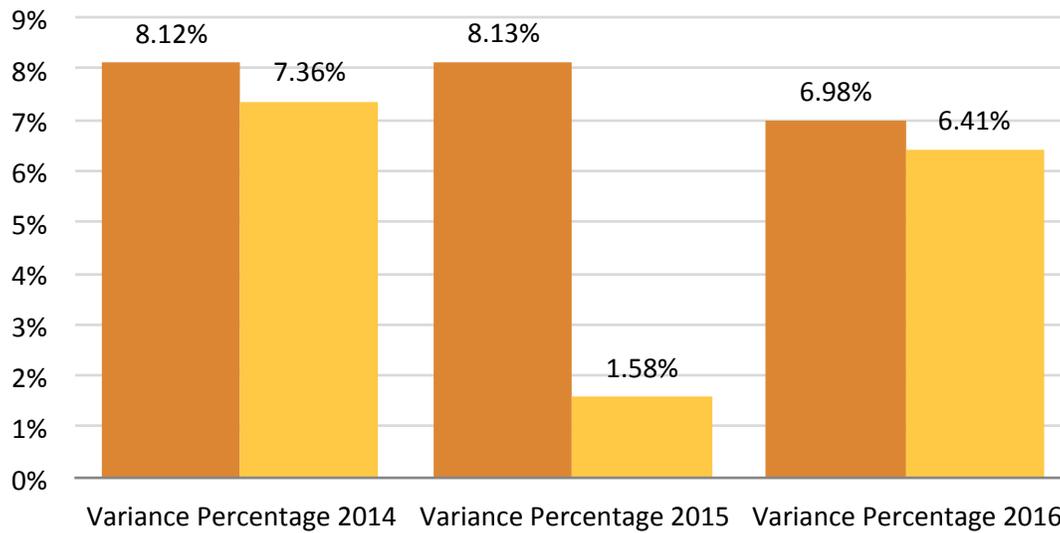
- \$ All - (SHA & MDTA)
- \$10M - (MPA, MAA & MTA)
- \$400K - IT (TSO & MVA)

# Deliver Transportation Solutions and Services of Great Value

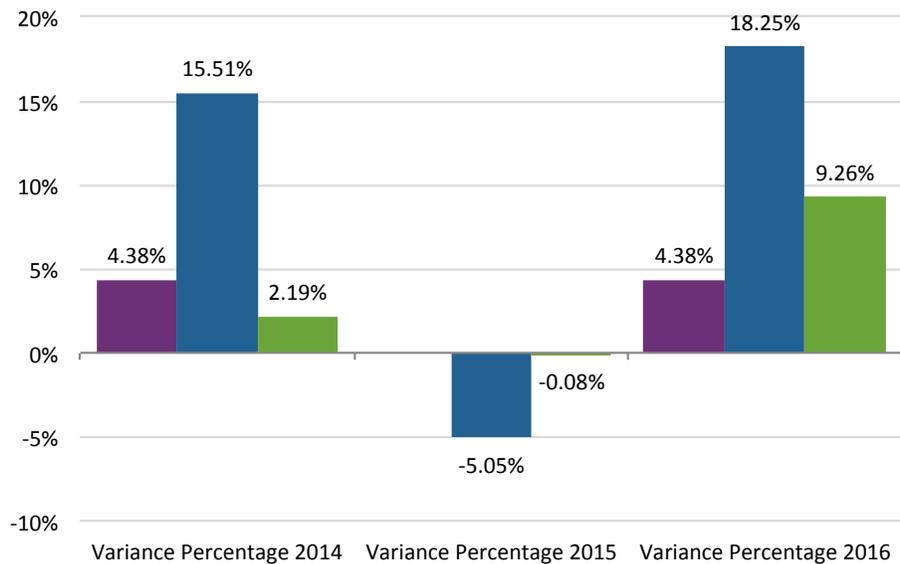
## PERFORMANCE MEASURE 4.1

Percent of Estimated Project Budget as Compared to Final Project Award

Variance Percentage - SHA, MDTA 2014-2016



Variance Percentage - MPA, MAA, MTA (2014-2016)

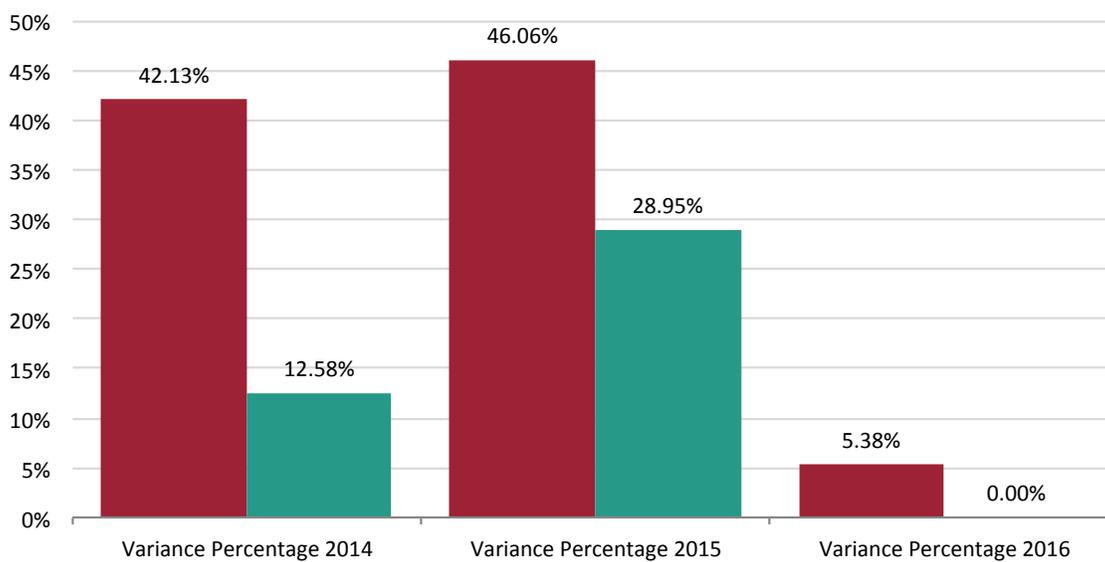


# Deliver Transportation Solutions and Services of Great Value

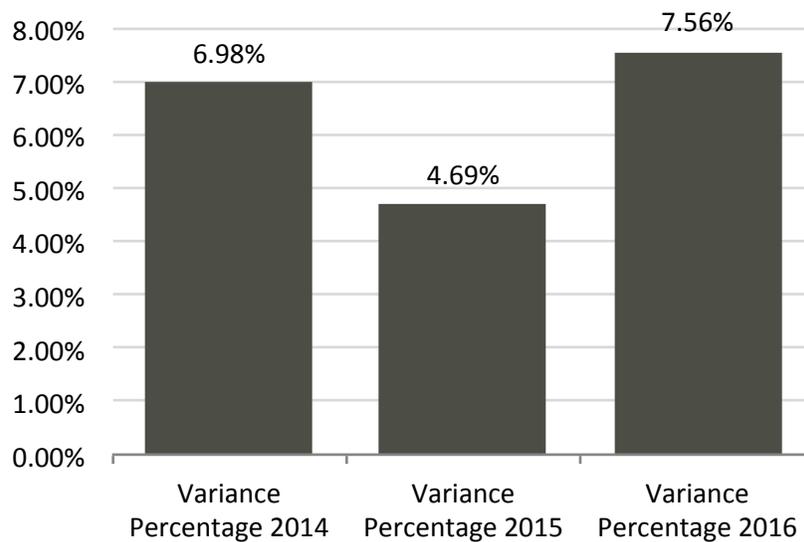
## PERFORMANCE MEASURE 4.1

Percent of Estimated Project Budget as Compared to Final Project Award

Variance Percentage - TSO, MVA (2014-2016)



Variance Percentage - MDOT (2014-2016)



# Deliver Transportation Solutions and Services of Great Value

## TANGIBLE RESULT DRIVER:

Jason Ridgway

*State Highway Administration (SHA)*

## PERFORMANCE MEASURE DRIVER:

Brian W. Miller

*Maryland Port Administration (MPA)*

## PURPOSE OF MEASURE:

To measure the difference in contract amount from Notice to Proceed (NTP) to final contractor payout. This is done in order to determine the effectiveness of contract management.

## FREQUENCY:

Annually (in October)

## DATA COLLECTION METHODOLOGY:

Collect data from MDOT TBUs for Fiscal Years 2013 to 2016. Data will reflect contracts that closed out in each respective Fiscal Year. Data will be reflected in a bar graph for each Fiscal Year.

## NATIONAL BENCHMARK:

14 percent National Average Amount over Original Budget for Over Budget Projects Only, NCHRP Report 20-24 (37) A (01) Measuring Performance Among State DOTs: Sharing Best Practices – Construction Schedule and Budget Performance Update

## PERFORMANCE MEASURE 4.2

### Percent of Change for Finalized Contracts

It is important to assess how well we manage the budgeted and awarded amount during the duration of Department contracts. This is done to ensure we are getting what we paid for and not adding unnecessary or unbudgeted costs to our transportation projects. This will facilitate better contract performance and better management of contracts which will add overall value to the project and ensure worthwhile expenditures of taxpayer dollars.

The primary issue that could arise would be for contracts that exceed the award amount at final payout.

TBUs will have to monitor contracts and justify any overages through contract changes and justifications for those changes.

Individual TBUs may not have data from a fiscal year if no contract(s) closed during the respective fiscal year.

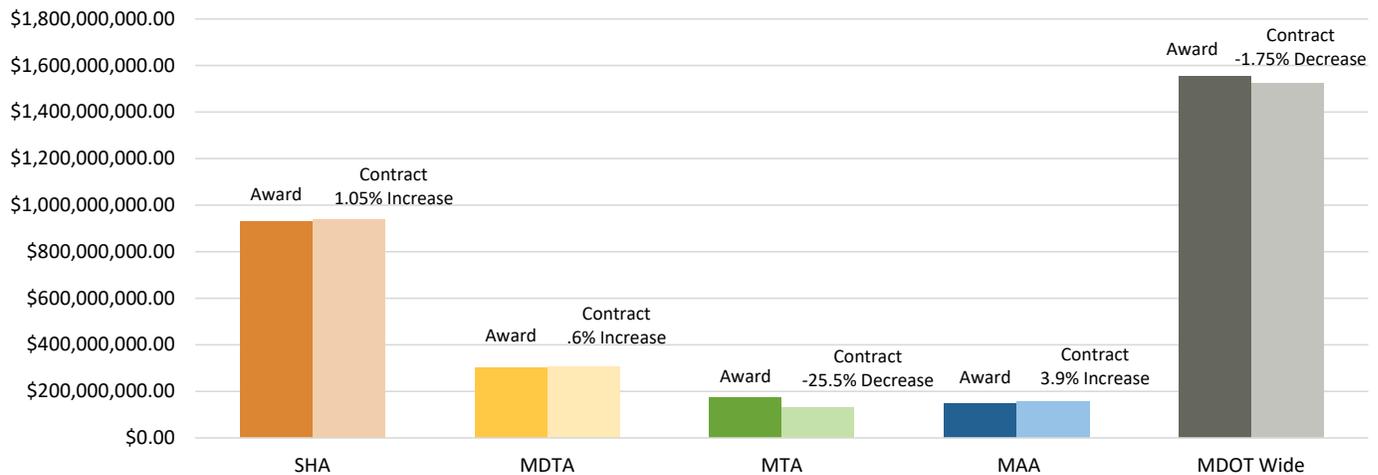
MDOT & TBU Totals for fiscal years 13 through 16 are well below the national benchmark of 14 percent; therefore no corrective actions are needed at this time.

# Deliver Transportation Solutions and Services of Great Value

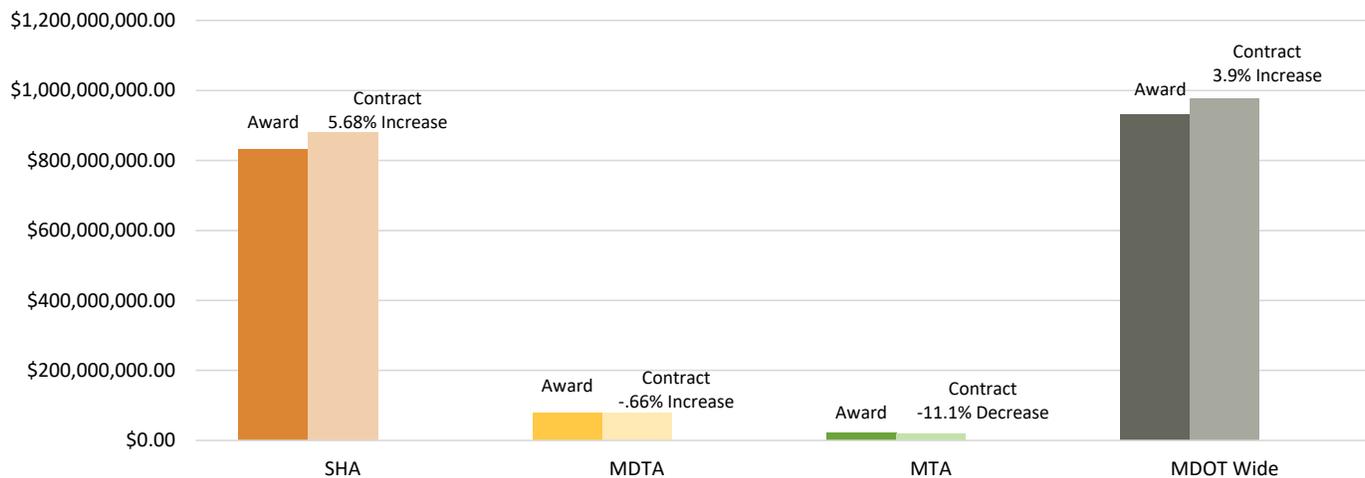
## PERFORMANCE MEASURE 4.2

### Percent of Change for Finalized Contracts

FY 2013 Percent of Change for Finalized Contracts



FY 2014 Percent of Change for Finalized Contracts

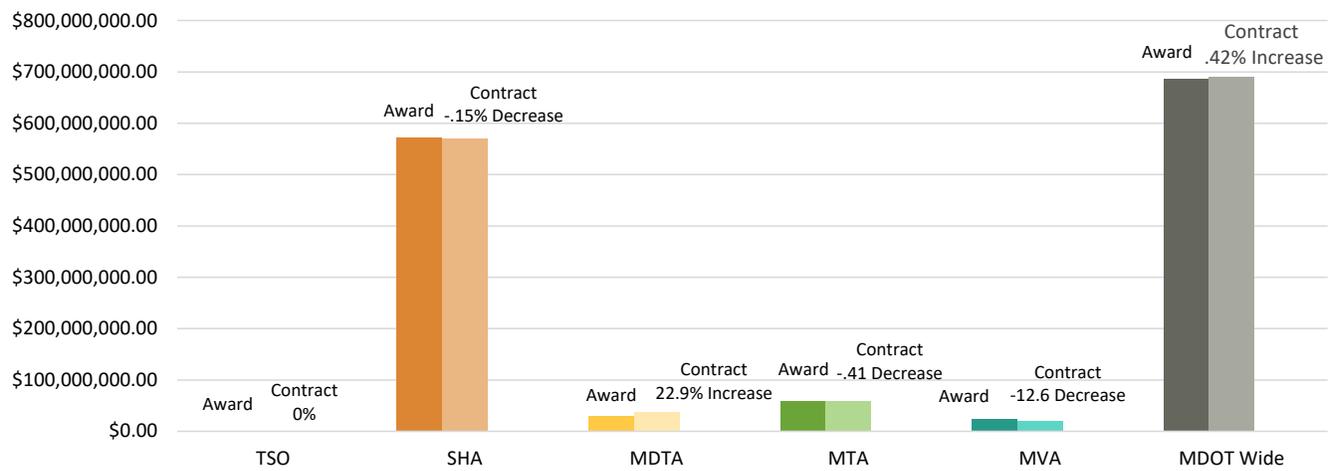


# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.2

### Percent of Change for Finalized Contracts

FY 2015 Percent of Change for Finalized Contracts

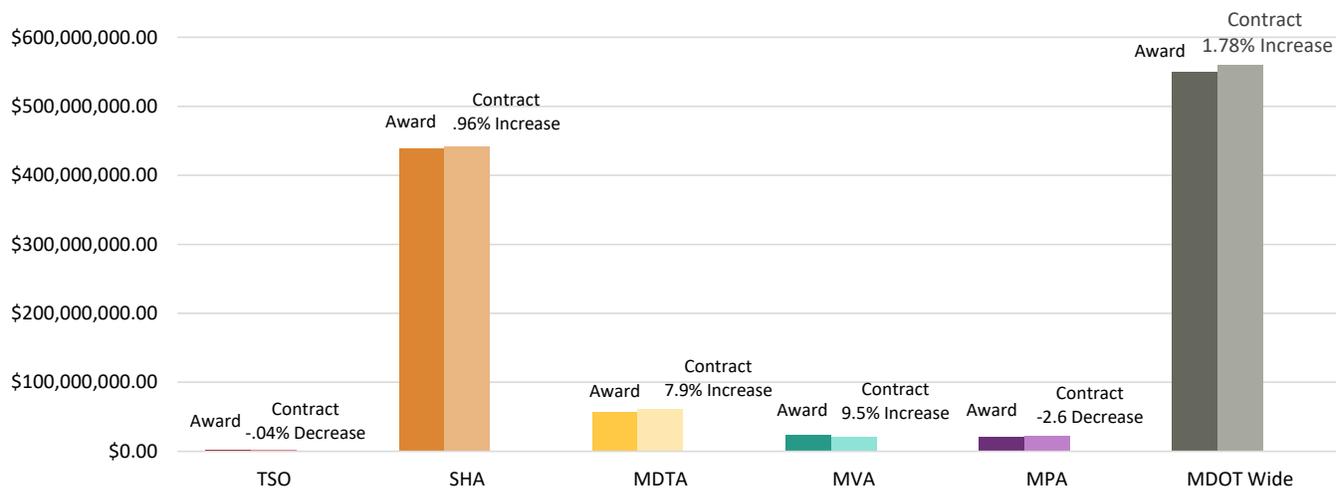


# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.2

### Percent of Change for Finalized Contracts

FY 2016 Percent of Change for Finalized Contracts



# Deliver Transportation Solutions and Services of Great Value

## TANGIBLE RESULT DRIVER:

Jason Ridgway

*State Highway Administration (SHA)*

## PERFORMANCE MEASURE DRIVER:

Bill Appold

*The Secretary's Office (TSO)*

## PURPOSE OF MEASURE:

To determine if MDOT is efficiently managing and delivering contracts and services.

## FREQUENCY:

Annually (in October)

## DATA COLLECTION METHODOLOGY:

Information will be provided by the MDOT Offices of Construction, Planning and Finance.

## NATIONAL BENCHMARK:

85%

## PERFORMANCE MEASURE 4.3

### On-time Services and Solutions: Percent of Projects Completed by Original Contract Date

When MDOT awards a contract or agrees to provide a service, it establishes a commitment date which is the date the contract or service begins providing benefits to MDOT's stakeholders.

The purpose of this performance measure is to track MDOT'S accuracy in estimating if contracts and services committed to are completed and open to service by the commitment date specified in the contract. The performance measure will also determine if there are common factors that make contracts go over their budgeted time and whether or not these factors can be mitigated.

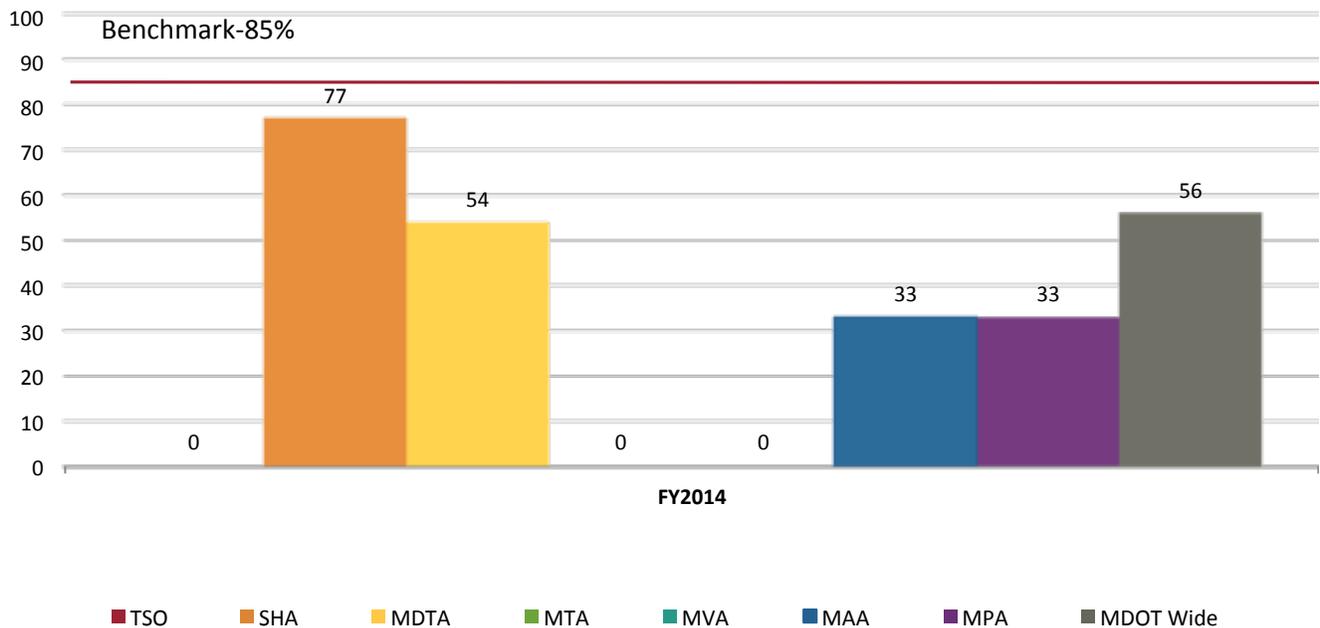
Overall MDOT increased the percentage of contracts completed in a timely basis from 56% in FY 14 and FY 15 to an FY 16 total of 60 percent. This is due to an increase in timely completions from MDTA and also a large increase in total contracts closed by SHA increasing the weight of their overall percentage.

# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.3

On-time Services and Solutions: Percent of Projects Completed by Original Contract Date

On time Services and Solutions: Percent of Projects Completed by Original Contract Date

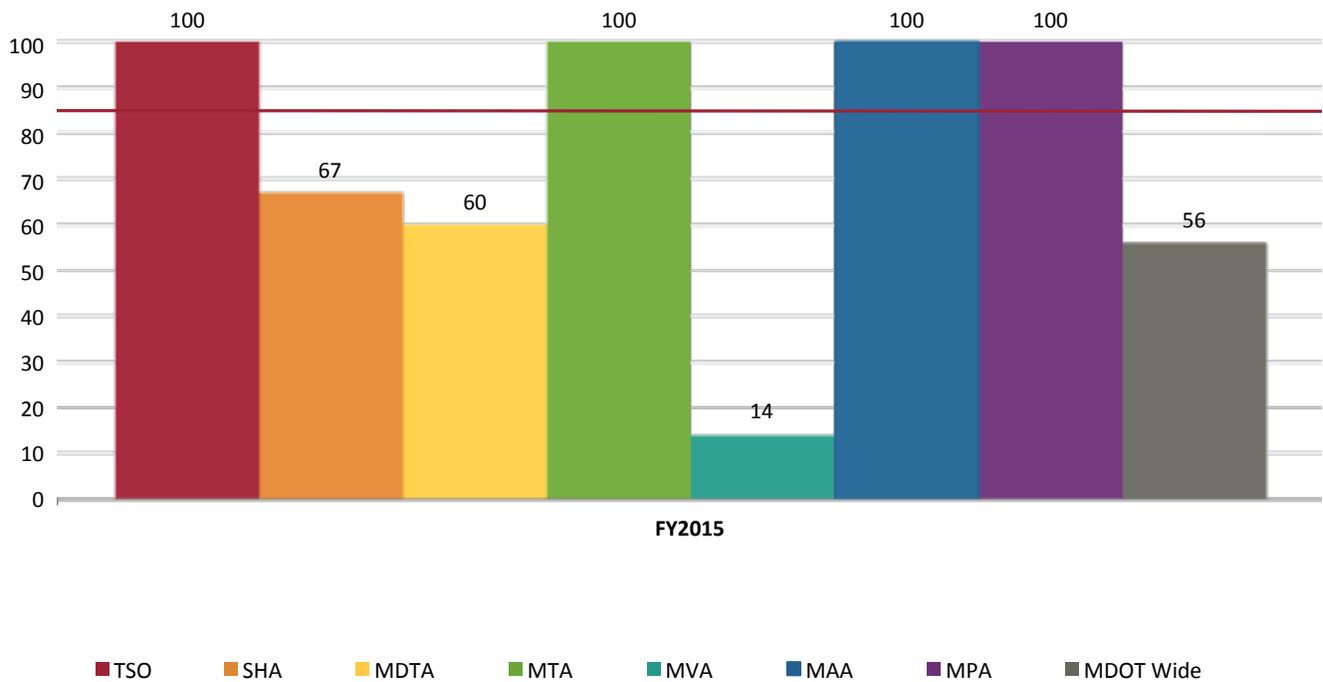


# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.3

On-time Services and Solutions: Percent of Projects Completed by Original Contract Date

On time Services and Solutions: Percent of Projects Completed by Original Contract Date

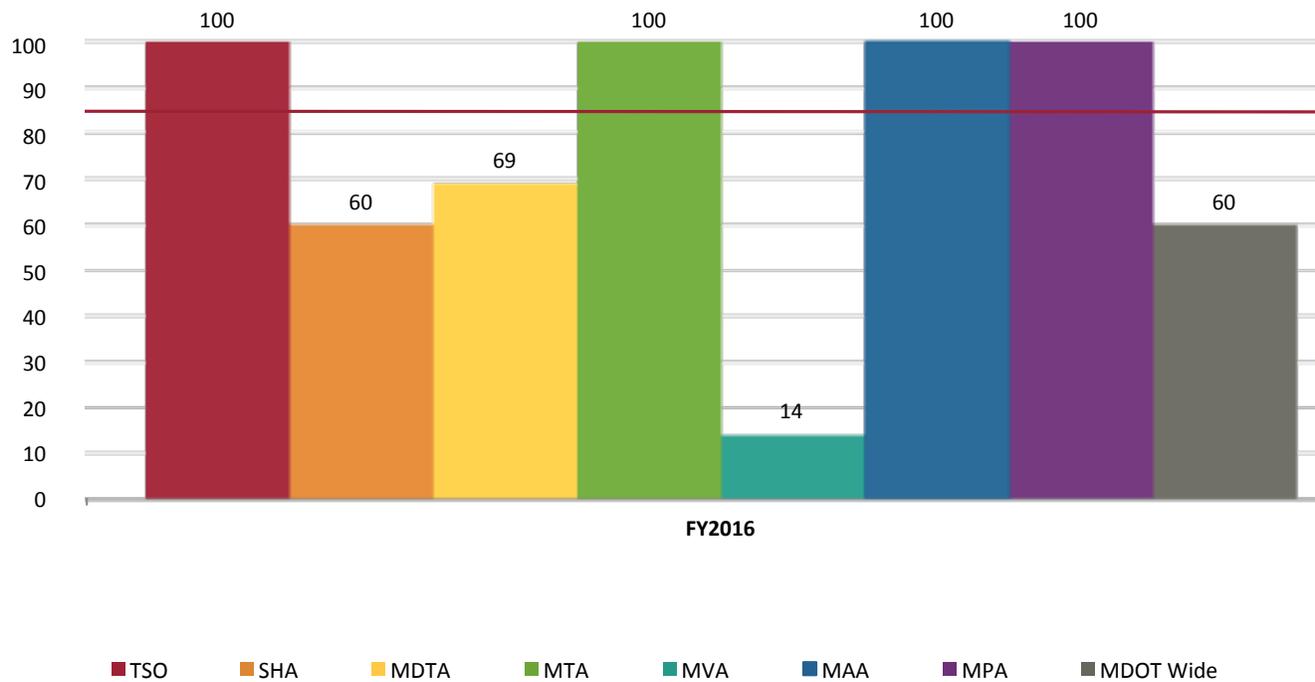


# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.3

On-time Services and Solutions: Percent of Projects Completed by Original Contract Date

On time Services and Solutions: Percent of Projects Completed by Original Contract Date



# Deliver Transportation Solutions and Services of Great Value

## TANGIBLE RESULT DRIVER:

Jason Ridgway

State Highway Administration (SHA)

## PERFORMANCE MEASURE DRIVER:

Pat Keller

Maryland Transit Administration (MTA)

Jim Harkness

Maryland Transportation Authority (MDTA)

Wayne Schuster

Maryland Aviation Administration (MAA)

## PURPOSE OF MEASURE:

To track the average cost of common transportation services and solutions, in order to make decisions as to where to reduce costs, as appropriate.

## FREQUENCY:

Annually (in January and July)

## DATA COLLECTION METHODOLOGY:

Through the Capital Program Management System (CPMS); The Consolidated Transportation Plan (CTP) and MDOT Capital Budget, Finance and Procurement Offices.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 4.4

### Average Cost of Common Transportation Solutions and Services

It is MDOT's responsibility to provide transportation solutions and services to the public that are of great value.

The purpose of these measures is to track, access, and analyze data that will help reveal solutions for reducing the cost of transportation services. Tracking data that is grouped by shared services across business units will allow comparison across TBUs, and also insight into ways to reduce the cost of our services to the public.

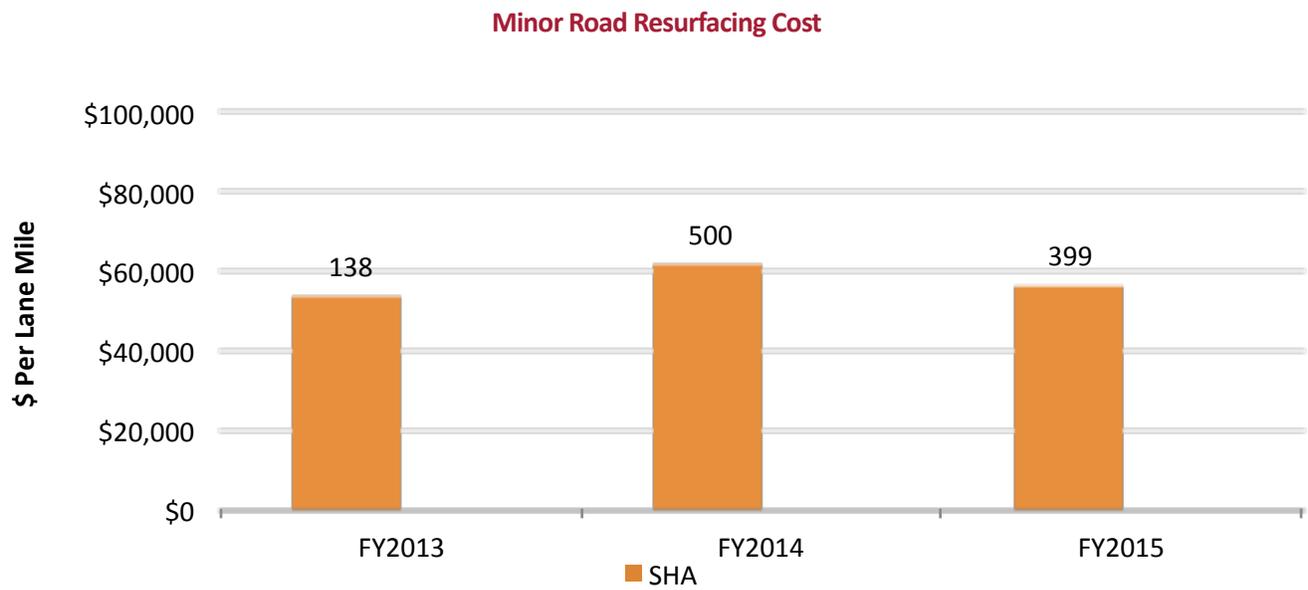
Performance measure 4.4 has 10 separate measurements. These measurements include minor and major road resurfacing cost, interstate road resurfacing cost, bridge replacement cost and major bridge redecking cost. Other measurements include operating cost per passenger trip, operating cost per revenue vehicle mile, passenger trips per revenue vehicle mile, farebox recovery and cost per transaction.

Tracking of these measures is based upon actual costs associated with contracts issued for various road and bridge projects. Because data for these projects is tracked annually, in any given year there may not be an award for this type of project as can be seen from some of the MDTA data. Regardless, the data will provide our customers with insights into how Maryland transportation projects compare to national averages.

Benchmarks are sought to gauge how Maryland solutions and services compare with national averages as well as who is considered the best in this category. Based on year-to-year data comparisons, the goal is to identify ways to reduce costs to the citizens of Maryland.

# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.4A Minor Road Resurfacing Cost

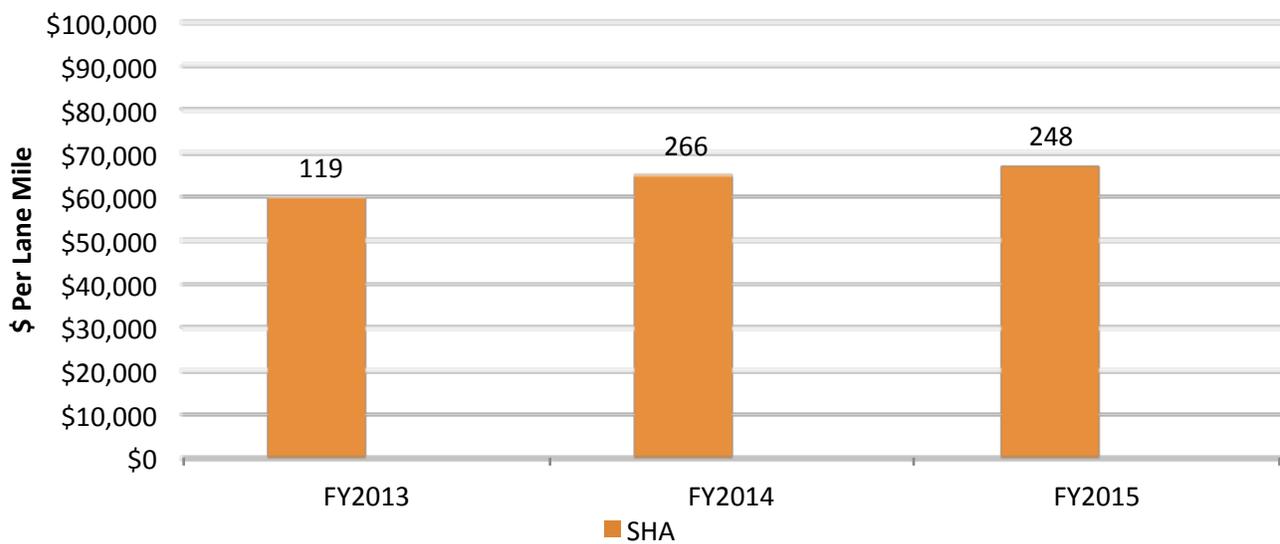


# Deliver Transportation Solutions and Services of Great Value

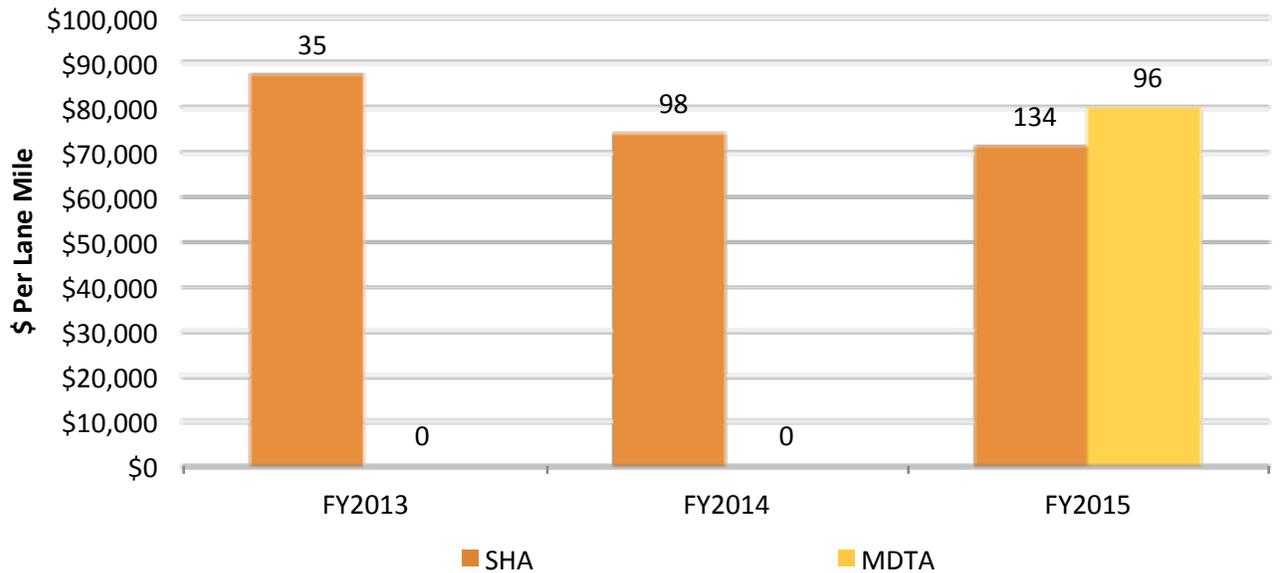
## PERFORMANCE MEASURE 4.4B AND C

### Major Road Resurfacing Cost and Interstate Resurfacing Cost

Major Road Resurfacing Cost Per Lane Mile



Interstate Resurfacing Cost Per Lane Mile

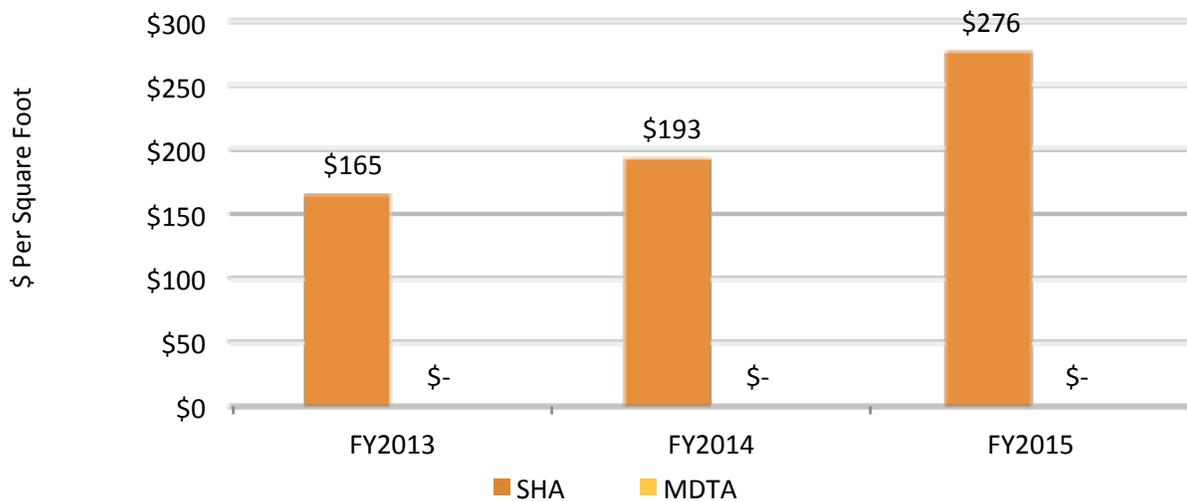


# Deliver Transportation Solutions and Services of Great Value

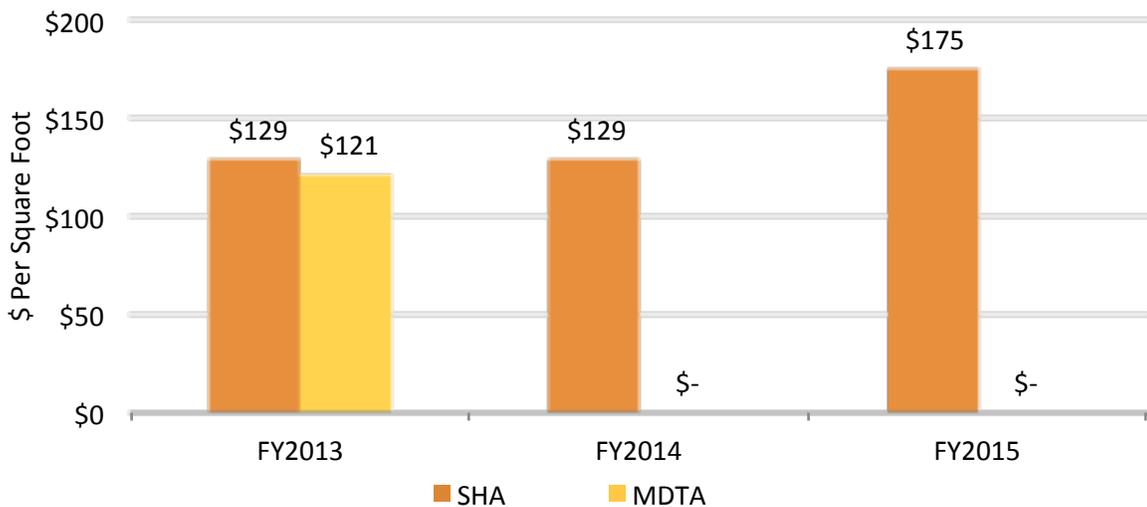
## PERFORMANCE MEASURE 4.4D AND E

### Average Bridge Replacement Cost and Average Bridge Redecking Cost

Average Bridge Replacement Cost



Average Bridge Redecking Cost



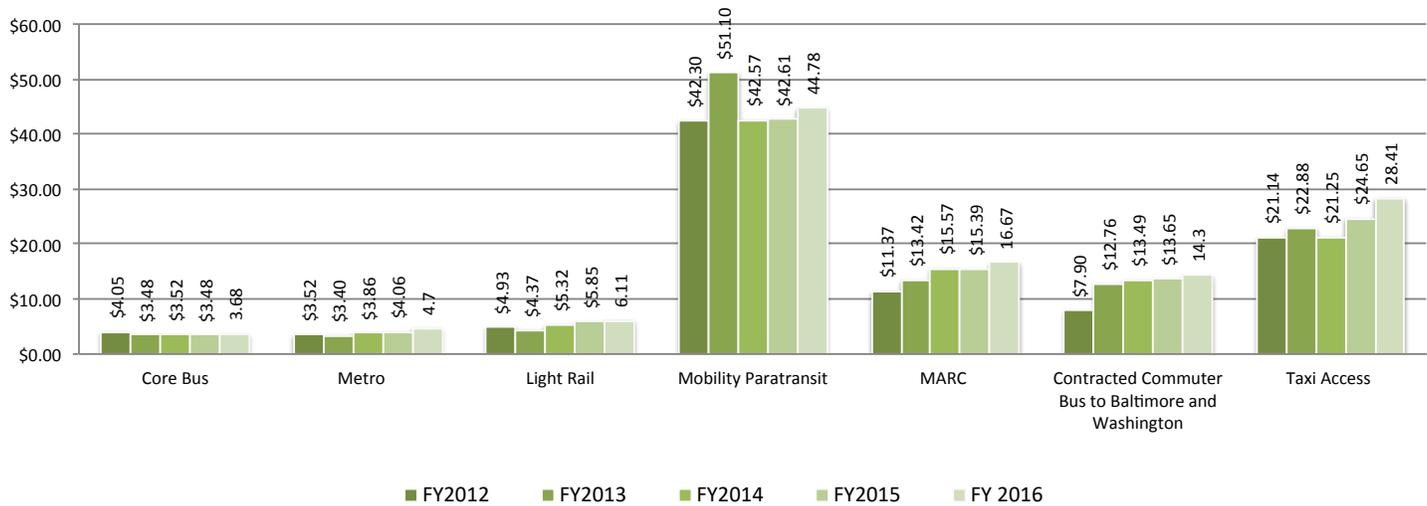
# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.4F

### Average Cost of Common Transportation Solutions: Operating Cost per Passenger Trip (MTA)

Operating cost per passenger trip is an indication of how effectively and efficiently the MTA is producing service given the operating costs. Ideally, a lower operating cost per passenger trip demonstrates the ability to move passengers in an efficient and effective manner. Benchmarks: Core Bus - \$4.89, MTA \$3.90; Metro - \$3.16, MTA \$3.81; Light Rail - \$5.60, MTA \$5.28; Commuter Bus \$11.10, MTA \$13.30; MARC \$14.80, MTA \$14.86.

Operating Cost Per Passenger Trip



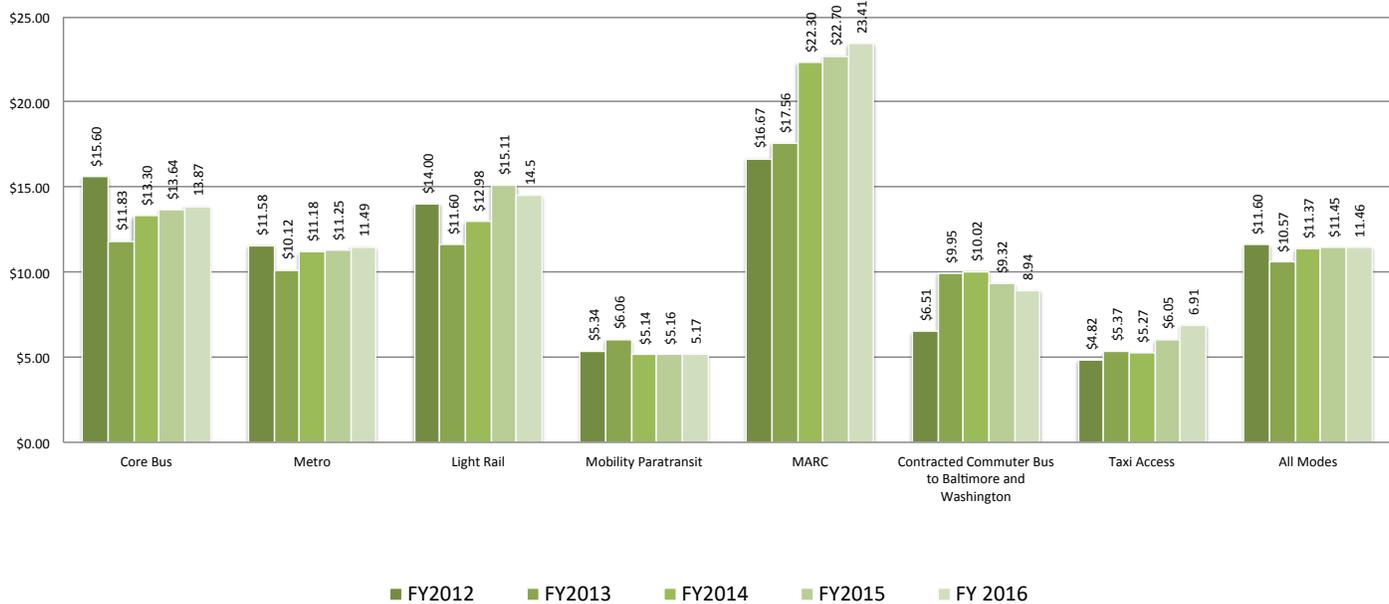
# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.4G

### Average Cost of Common Transportation Solutions: Operating Cost per Revenue Vehicle Mile (MTA)

Operating cost per revenue vehicle mile is an indication of the cost efficiency of the MTA in producing service given operating costs and scheduling of service. Ideally, when a transit vehicle is in operation, the goal is to be in revenue service vs. deadhead or repair. A lower operating cost per revenue vehicle mile demonstrates an efficient, well scheduled service and maintained fleet. Benchmarks: Core Bus \$13.83, MTA \$14.74; Metro \$12.49, MTA \$11.00; Light Rail \$17.49, MTA \$13.80; Commuter Bus \$8.42, MTA \$9.88; MARC \$23.21, MTA \$23.23.

Operating Cost Per Revenue Vehicle Mile



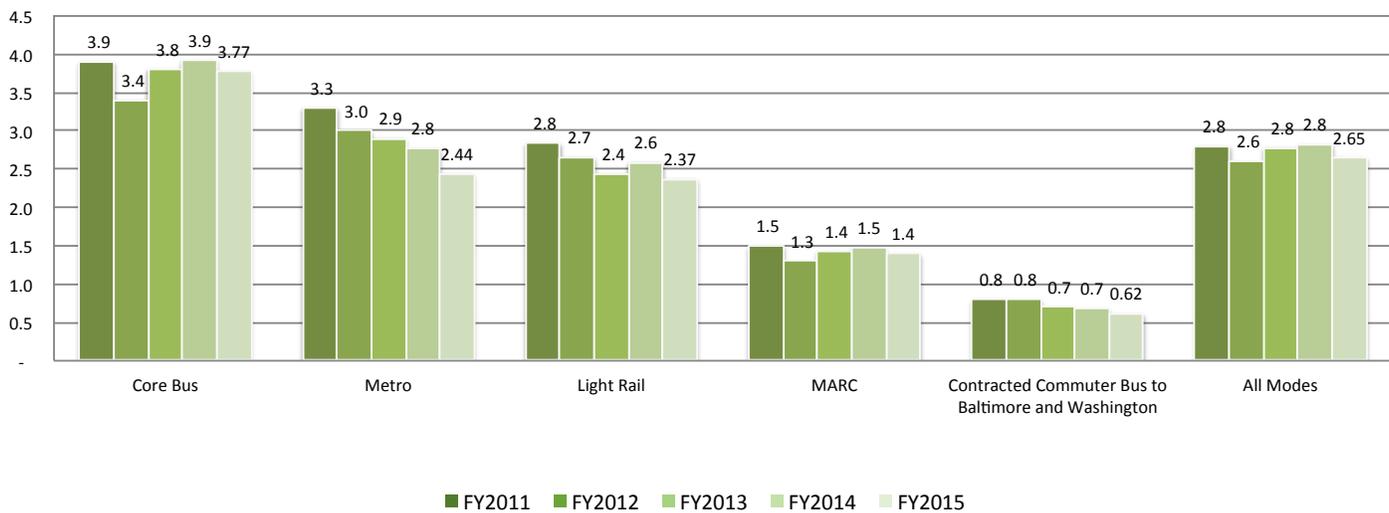
# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.4H

### Average Cost of Common Transportation Solutions: Passenger Trip per Revenue Vehicle Mile (MTA)

Passenger trips per revenue vehicle mile measures the effectiveness of the cost of operating transit per passenger carried. The scheduled service should carry as many passengers as practicable without overcrowding the service. Benchmarks: Core Bus 3.14, MTA 3.8; Metro 4.62, MTA 2.9; Light Rail 3.1, MTA 2.6; Commuter Bus .76, MTA .7; MARC 1.62, MTA 1.6.

Passenger Trips Per Revenue Vehicle Mile



# Deliver Transportation Solutions and Services of Great Value

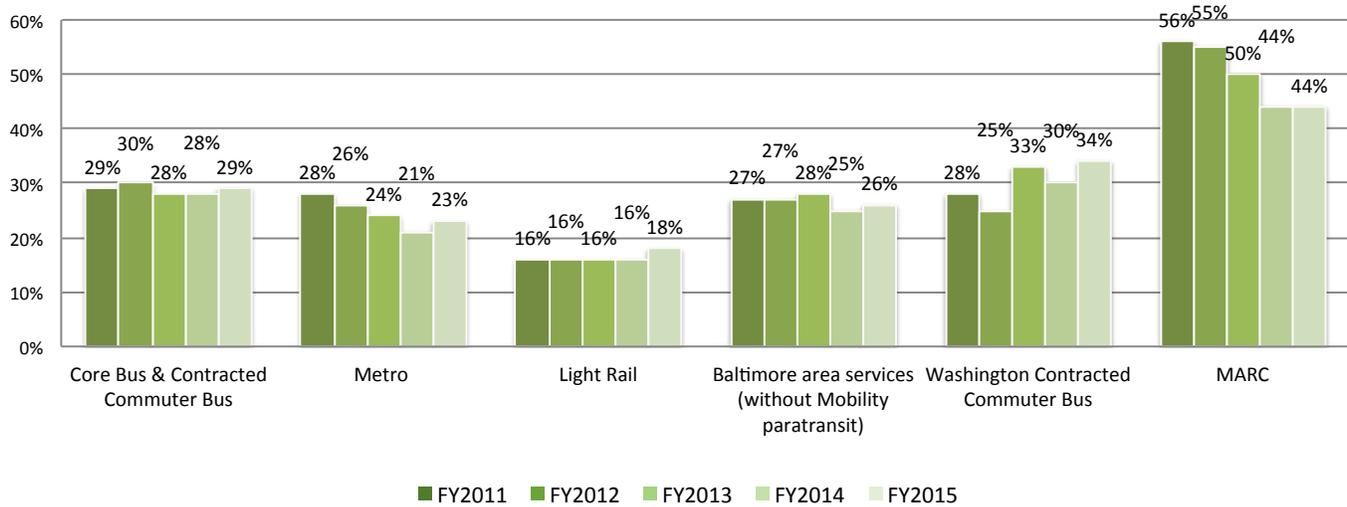
## PERFORMANCE MEASURE 4.4I

### Average Cost of Common Transportation Solutions: Farebox Recovery Ratio (MTA)

Farebox recovery ratio is a metric that measures the amount of operating costs recovered through fares. Various factors affect the recovered operating costs such as fare price, ridership levels, and operating costs such as labor, fuel, and repair.

State law mandates that MTA achieve a 35 percent Farebox Recovery Ratio.

Farebox Recovery Ratio



# Deliver Transportation Solutions and Services of Great Value

## PERFORMANCE MEASURE 4.4J

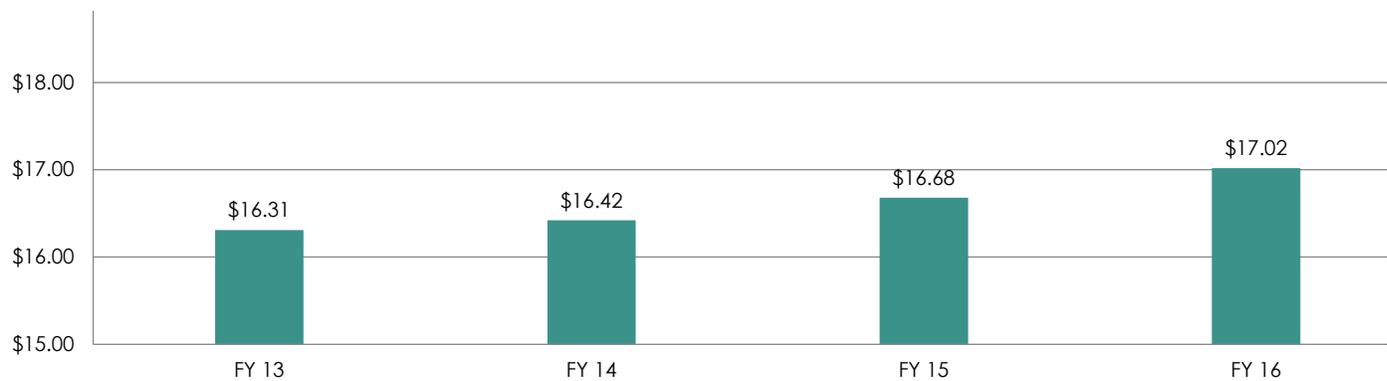
### Average Cost of Common Transportation Solutions: Cost Per Transaction (MVA)

Cost per transaction is based on the total Operating Expense compared to the total number of Customer Transactions. The Operating Expense is inclusive of salaries and wages, including overtime. Operating expenses also include MVA costs to provide driver's licensing, vehicle registration and titling customer services.

The ways in which MVA provides its services to its customers is a factor in the costs per transaction. For example, IT system enhancements (introducing alternative service delivery options to customers) offer higher levels of convenience and customer satisfaction. Recent service improvements include the ability for a customer's vision provider to submit vision exam results electronically to MVA for licensing purposes, thus allowing some customers to renew their license via the web in lieu of standing in a license renewal line. Other such innovative service delivery using computer-based methods are included in the costs per transaction.

Trends in cost per transaction can vary when new technologies are implemented. Initial technology rollout costs tend to create a spike in costs, but after implementation, cost per transaction usually stabilizes and then declines. Other factors included in cost per transaction include the number of transactions required to complete customer service or product requests; increases in vehicle sales, which can be more costly to process (full titling transactions); and changes in driver's licensing laws requiring more time-consuming customer identification screening.

#### MVA Cost Per Transaction



# Deliver Transportation Solutions and Services of Great Value



## TANGIBLE RESULT #5

# Provide an Efficient, Well-Connected Transportation Experience



MDOT will provide an easy, reliable transportation experience throughout the system. This includes good connections and world class transportation facilities and services.

### RESULT DRIVER:

Phil Sullivan

*Maryland Transit Administration (MTA)*

# Provide an Efficient, Well-Connected Transportation Experience

## TANGIBLE RESULT DRIVER:

Phil Sullivan

*Maryland Transit Administration (MTA)*

## PERFORMANCE MEASURE DRIVER:

John O'Neill

*Maryland Transportation Authority (MDTA)*

## PURPOSE OF MEASURE:

To assess average wait time at facilities.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Verification of average wait times at facilities for services based on MDTA reporting the percentage of tolls collected via electronic payment at toll facilities.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 5.1A

### Reliability of the Transportation Experience: Percentage of Tolls Collected Electronically

Customers of MDOT services expect reasonable wait times to obtain needed services. The reliability of transportation experiences were assessed through average wait times for service at MDOT facilities.

This measure will allow MDOT to monitor and improve wait times for service at the facilities and the data will be reported and reviewed quarterly.

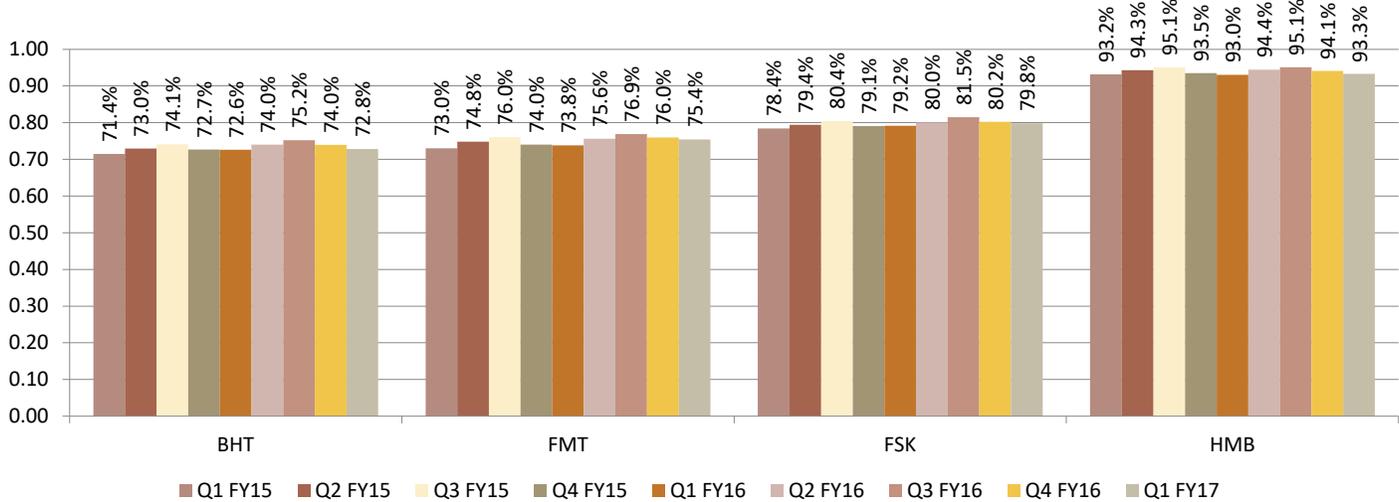
The MDTA will report on the percentage of tolls collected electronically at mixed (Cash and Electronic payment) toll facilities per quarter. The percentage of tolls collected at toll facilities per quarter is an indication of congestion at the toll booths. A higher percentage of tolls collected via ETC per quarter equals less delay. This measure will exclude the MDTA's All Electronic Facilities (ICC and I95 ETLs).

# Provide an Efficient, Well-Connected Transportation Experience

## PERFORMANCE MEASURE 5.1A

Reliability of the Transportation Experience: Percentage of Tolls Collected Electronically

Percent of ETC Transactions for All Mixed Facilities by Facility



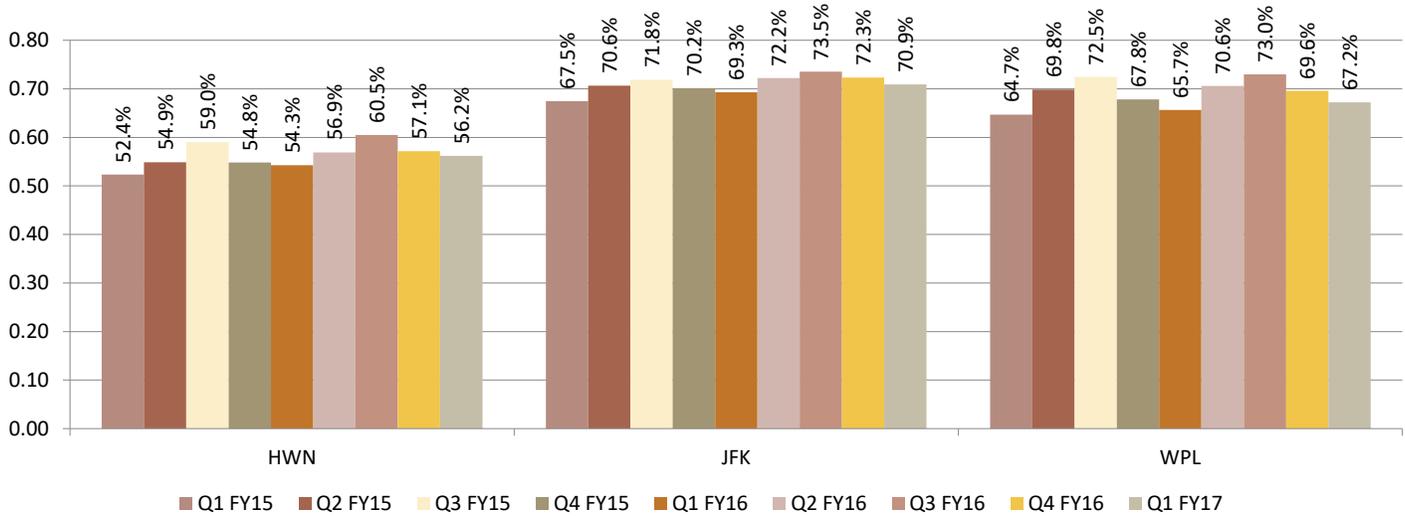
# Provide an Efficient, Well-Connected Transportation Experience



## PERFORMANCE MEASURE 5.1A

Reliability of the Transportation Experience: Percentage of Tolls Collected Electronically

Average Volume, Peak Hours All Mixed Facilities



# Provide an Efficient, Well-Connected Transportation Experience

**TANGIBLE RESULT DRIVER:**

Phil Sullivan

Maryland Transit Administration (MTA)

**PERFORMANCE MEASURE DRIVER:**

David Thomas

Maryland Port Administration (MPA)

**PURPOSE OF MEASURE:**

To assess average turn time at facilities to ensure an efficient transportation experience for our customers.

**FREQUENCY:**

Annually (in January)

**DATA COLLECTION METHODOLOGY:**

Verification of average turn times at port facilities for services.

**NATIONAL BENCHMARK:**

There is not a national benchmark. However, in researching through Trade and Industry Publications and Trucking Associations 45 minutes can be established as an efficient turn time.

## PERFORMANCE MEASURE 5.1B

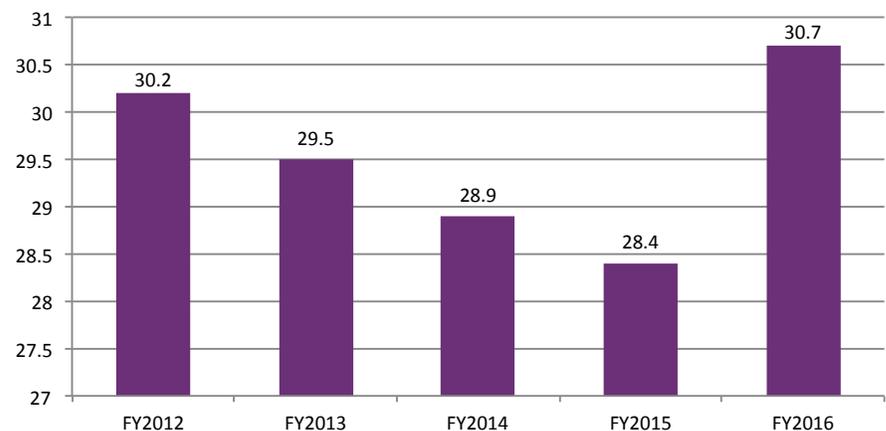
### Reliability of the Transportation Experience: Average Annual Truck Turn Time Per Container Transaction

Customers of MDOT Port facilities expect reasonable turn times to obtain needed services. The reliability of transportation experience was assessed through average truck transaction turn times at facilities to ensure that customers have an efficient transportation experience.

This measure will allow MDOT to monitor and improve turn times for service at facilities. The data will be reported and reviewed annually.

The MPA is reporting on the truck wait (truck turn-around) time for containers handled at Seagirt Marine Terminal by fiscal year. The gate turnaround time is determined by the gate in and gate out time (pedestal to pedestal). The primary objective of the Port is to reduce the truck turnaround times through improving gate processing efficiencies.

**Average Annual Truck Turn Around-Time per Unit (Box)  
at Seagirt Marine Terminal**



# Provide an Efficient, Well-Connected Transportation Experience

**TANGIBLE RESULT DRIVER:**

Phil Sullivan

Maryland Transit Administration (MTA)

**PERFORMANCE MEASURE DRIVER:**

David Thomas

Maryland Port Administration (MPA)

**PURPOSE OF MEASURE:**

To assess average wait time at our facilities.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

Verification of average wait times at our facilities for services.

**NATIONAL BENCHMARK:**

N/A

**PERFORMANCE MEASURE 5.1C**

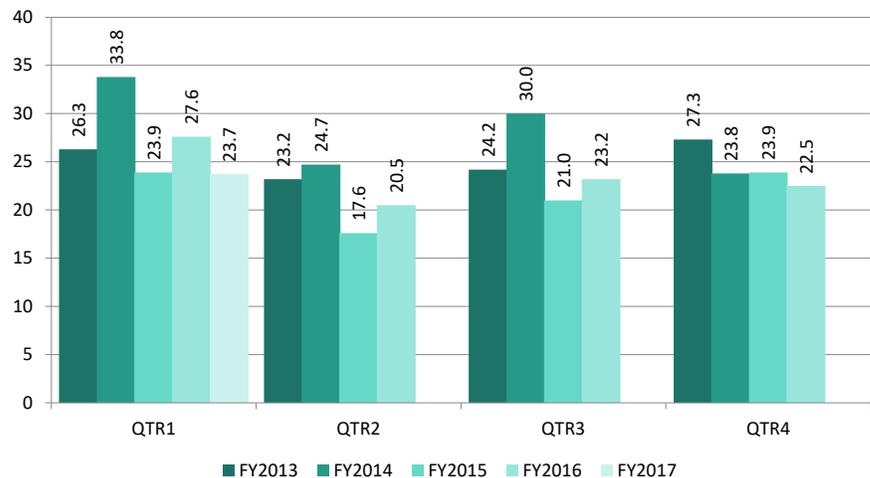
**Reliability of the Transportation Experience: Average Wait Time (MVA)**

Customers of MDOT services expect reasonable wait times to obtain needed services and products. For performance measure 5.1c, the reliability of customer transportation experiences was assessed through monitoring average wait times at MDOT MVA facilities. The data will be reported and reviewed quarterly.

The MVA will report the average wait time for customers to obtain services and products at all branch offices. The statewide average wait time goal for FY2017 is 21.7 minutes. During the current Q1 reporting period, the MDOT MVA recorded an average statewide wait time of 23.7 minutes. Traditionally the summer months are the busiest for MDOT MVA, which may result in increased wait times.

Initiatives implemented for Q1 include the implementation of the Central Issuance process for all driver’s licenses (DL) and identification cards (ID), whereas customers now receive their DL/ID in the U.S. mail and not in a branch office at the time of service. In addition, the MVA began to electronically screen all customers at the Customer Information Counter to identify if they could conduct their services immediately at a kiosk or online as opposed to waiting in-line for a customer service representative. These new initiatives assisted in keeping wait times at a minimum during MVA’s busiest time period. minutes.

**Average Wait Time (MVA)**



# Provide an Efficient, Well-Connected Transportation Experience

## TANGIBLE RESULT DRIVER:

Phil Sullivan

Maryland Transit Administration (MTA)

## PERFORMANCE MEASURE DRIVER:

Robert Pond

Maryland Transit Administration (MTA)

## PURPOSE OF MEASURE:

To assess the percent of on-time performance of our transportation service by mode to ensure a more reliable transportation experience for our customer.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Varies by Mode:

- Bus Data is collected by the CAD/AVL System.
- Rail Mode data is collected by the modal control rooms.
- Paratransit data is transmitted by on-board MDT to the Scheduling System or validated by a call from vehicle to a Manager upon rider pick up.

## NATIONAL BENCHMARK:

Per APTA Standards Modal OTP Benchmarks are as follows:

Bus – 78 percent

Rail – 90 percent

Para-Transit – 92 percent

## PERFORMANCE MEASURE 5.1D

### Reliability of the Transportation Experience: On-Time Performance (MTA & MAA)

Reliability of transportation services is important to MDOT customers. Many rely on posted arrival and departure times to make needed connections and for critical appointments. This measure will allow the TBUs to focus resources where needed to improve on-time performance.

The public timetable has been referred to as “our contract with our riders.” On-Time Performance (OTP) is the measurement of our adherence to that contract. Maintaining a high level of OTP is of critical importance when providing ground transportation.

Whether a customer has a one-seat ride or needs to make a complex intermodal connection, the rider has an expectation that services will be provided reliably and as scheduled. MTA and MAA schedule adherence drives not only customer perception of the service we provide directly, but our efficient use of taxpayer dollars, management processes, and the efficiency and reliability of State Government.

As an agency, MTA continues to meet or exceed APTA benchmarks for OTP across Bus (78 percent), Rail (90 percent), and Paratransit (92 percent) modes. Our commitment to continual improvement of OTP is evident in our efforts to provide a transit network that allows passengers to travel more efficiently throughout our service area utilizing schedules that accurately reflect passenger travel times, driving down service related complaints and resulting in a better passenger experience.

The implementation of the BaltimoreLink bus system will result in bus service that is easier for riders to use, while simultaneously being easier to manage and get “back on time” in the event that challenges related to delivering urban mass transit cause service disruptions.

The results will be a more user-friendly, reliable system, as well as continued improvement in service delivery and the perception of mass transit services.

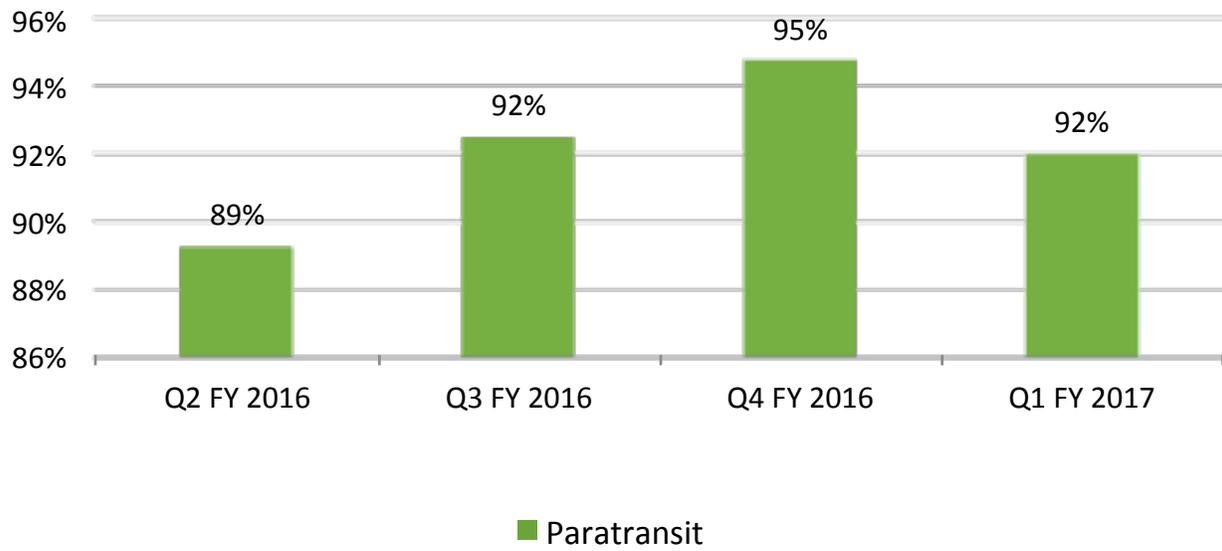
# Provide an Efficient, Well-Connected Transportation Experience



## PERFORMANCE MEASURE 5.1D

Reliability of the Transportation Experience: On-Time Performance (MTA & MAA)

On-Time Performance of MTA Paratransit

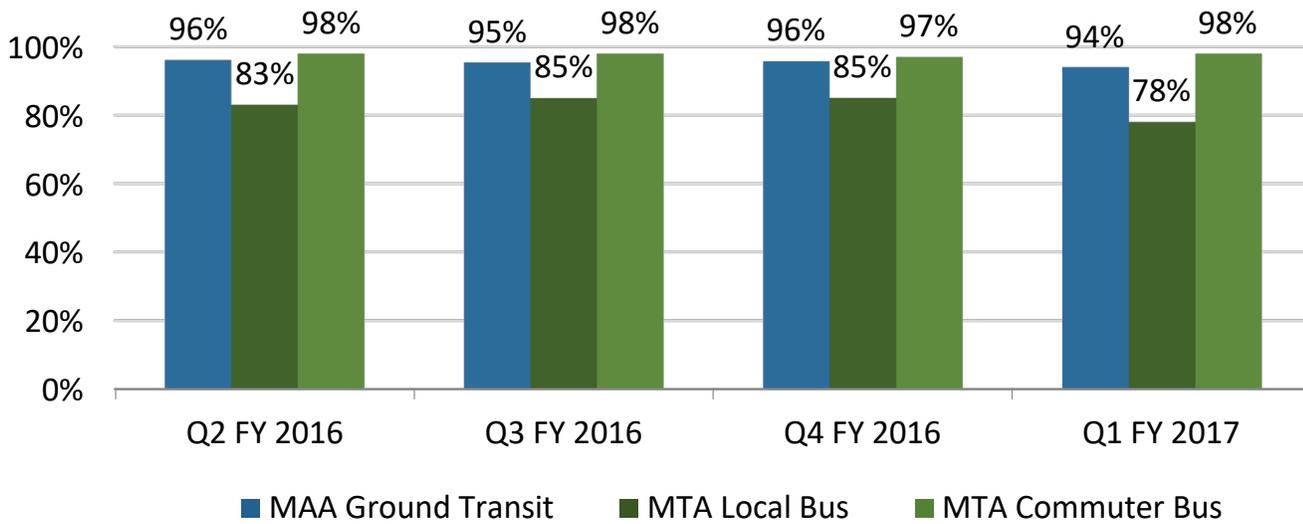


# Provide an Efficient, Well-Connected Transportation Experience

## PERFORMANCE MEASURE 5.1D

Reliability of the Transportation Experience: On-Time Performance (MTA & MAA)

On-Time Performance of MTA Local Bus, MTA Commuter Bus & MAA Ground Transit



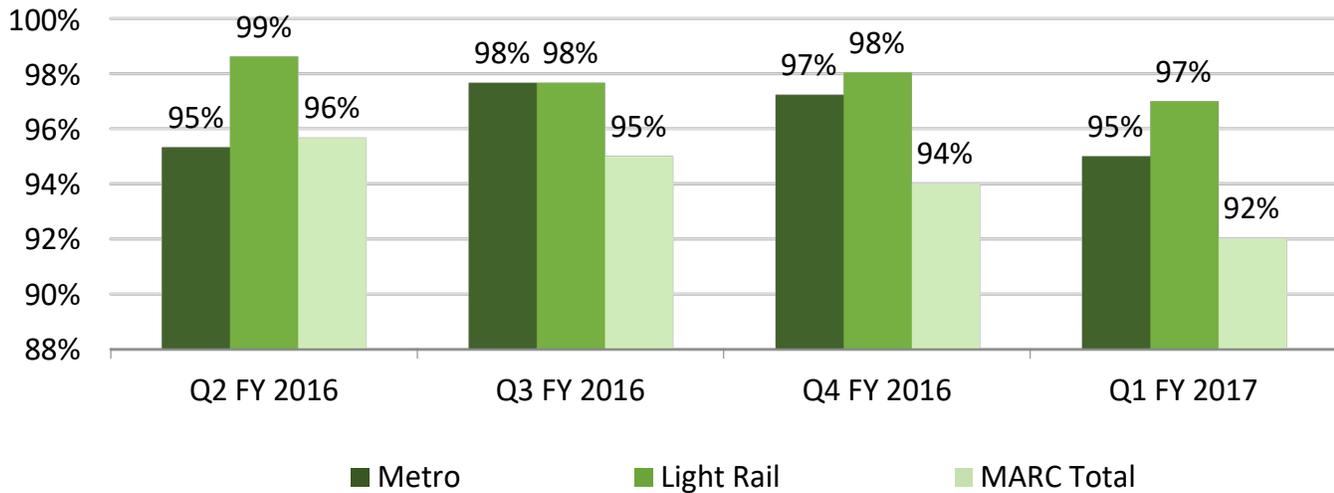
# Provide an Efficient, Well-Connected Transportation Experience



## PERFORMANCE MEASURE 5.1D

Reliability of the Transportation Experience: On-Time Performance (MTA & MAA)

On-Time Performance of MTA Local Bus, MTA Commuter Bus & MAA Ground Transport



# Provide an Efficient, Well-Connected Transportation Experience

## TANGIBLE RESULT DRIVER:

Phil Sullivan

*Maryland Transit Administration (MTA)*

## PERFORMANCE MEASURE DRIVER:

John O'Neill

*Maryland Transportation Authority (MDTA)*

## PURPOSE OF MEASURE:

To provide customers reliable travel times on State highways to key destinations.

## FREQUENCY:

Annually (in January)

## DATA COLLECTION METHODOLOGY:

Formula based.

## NATIONAL BENCHMARK:

A Planning Time Index (PTI) which is  $\leq 1.5$

## PERFORMANCE MEASURE 5.1E

### Reliability of the Transportation Experience: Planning Time Index for Highway Travel

MDOT highway customers expect reliable travel times on State highways to reach key destinations. Customers make decisions on when to depart for daily commute, travel connections and critical appointments based on the highway travel times.

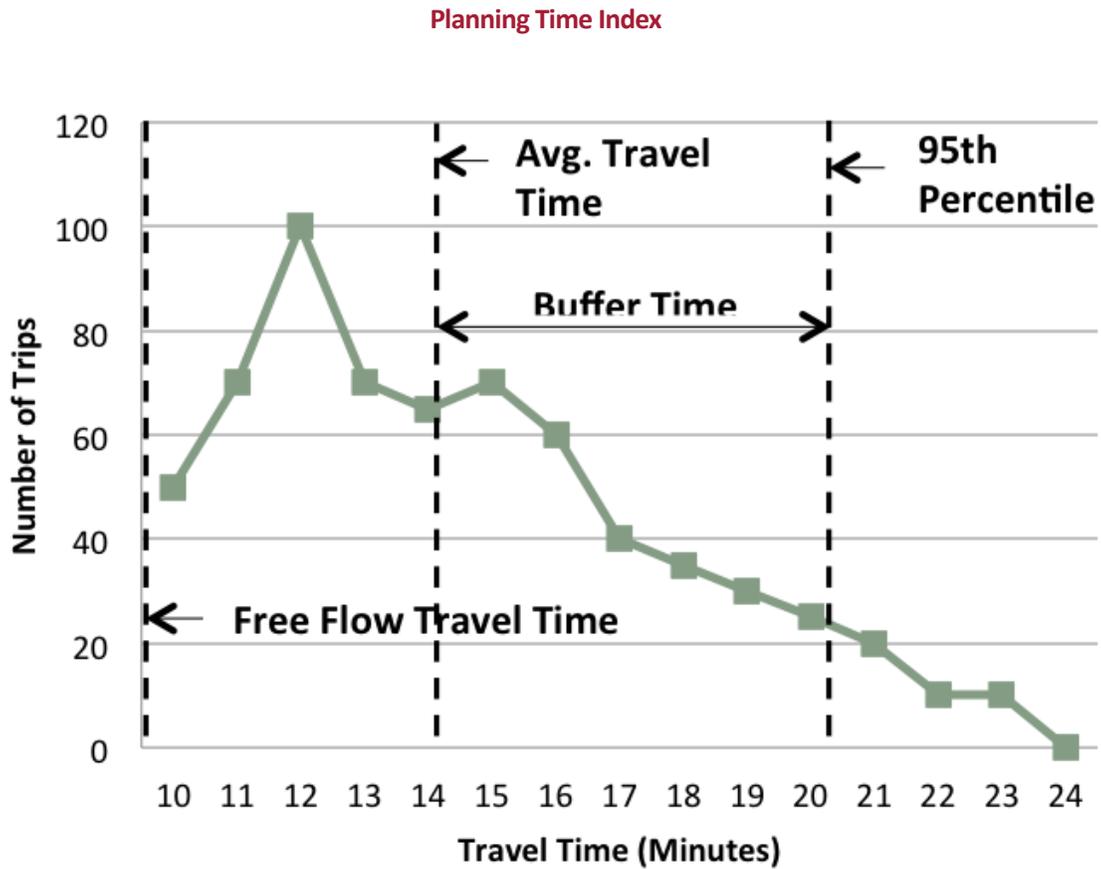
The planning time index is a good tool to gauge the reliability of travel on these heavily utilized routes. Providing an index for travel times allows customers to plan extra time if the Planning Time Index is higher to arrive at their destination on time.

A PTI of  $< 1.5$  is considered reliable and a PTI  $> 1.5$  and  $< 2.5$  is considered moderately unreliable and a PTI of  $> 2.5$  is considered highly to extremely unreliable. The goal is to maintain travel times for customers to less than 1.5 times the expected free flow travel time for peak periods.

# Provide an Efficient, Well-Connected Transportation Experience

## PERFORMANCE MEASURE 5.1E

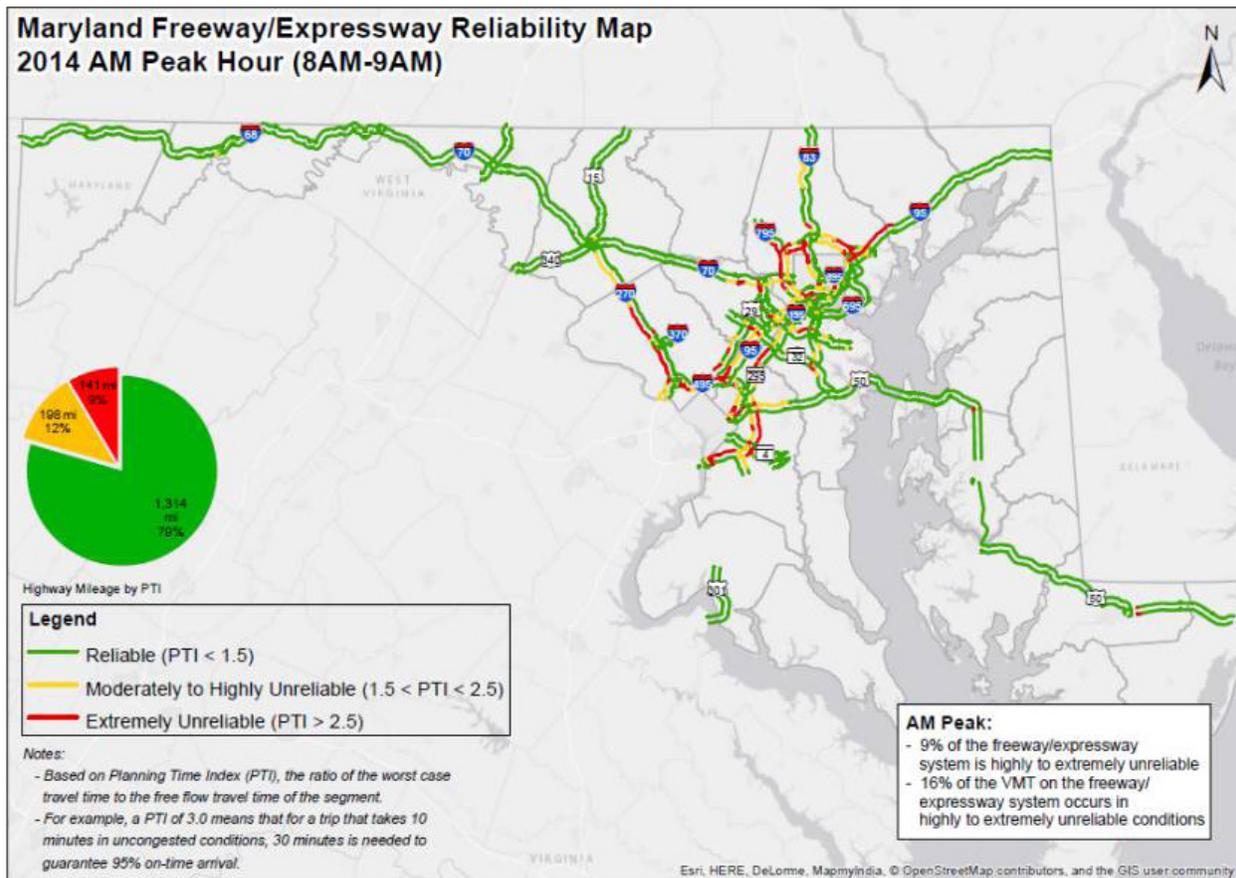
Reliability of the Transportation Experience: Planning Time Index for Highway Travel



# Provide an Efficient, Well-Connected Transportation Experience

## PERFORMANCE MEASURE 5.1E

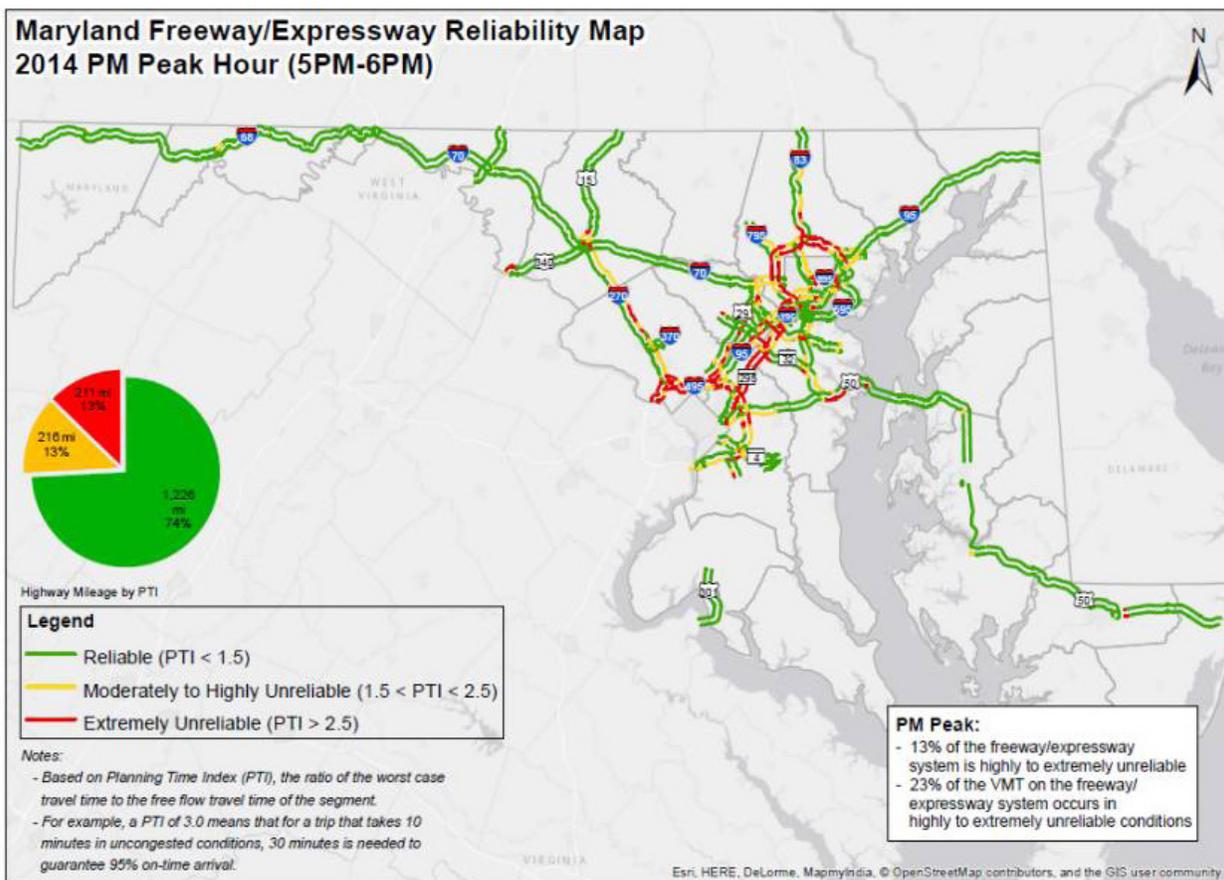
Reliability of the Transportation Experience: Planning Time Index for Highway Travel



# Provide an Efficient, Well-Connected Transportation Experience

## PERFORMANCE MEASURE 5.1E

Reliability of the Transportation Experience: Planning Time Index for Highway Travel



# Provide an Efficient, Well-Connected Transportation Experience

## TANGIBLE RESULT DRIVER:

Phil Sullivan

Maryland Transit Administration (MTA)

## PERFORMANCE MEASURE DRIVER:

Glenn McLaughlin

State Highway Administration (SHA)

## PURPOSE OF MEASURE:

To understand the impact on efficiency of quickly restoring transportation services after incidents for customers.

## FREQUENCY:

Annually (in April)

## DATA COLLECTION METHODOLOGY:

The methodology involves an analysis of operational records collected in real-time, and results are contingent on the scale, number and types of incident/disruptions.

## NATIONAL BENCHMARK:

North Carolina – 69 minutes

California – 90 minutes

Connecticut – 45 minutes

Florida – 90

Minnesota – 35 minutes

Missouri – 24 minutes

## PERFORMANCE MEASURE 5.2A

### Restoring Transportation Services: Average Time to Restore Normal Operations After Disruptions

MDOT's customers expect a safe, well-maintained, efficient and reliable transportation system with minimal disruption to travel and rapid response to and management/clearance of incidents/disruptions when they occur. Efforts to enhance operations, improve coordination and cooperation among TBUs, and regional contribution to the reduction in response times and the overall average incident duration, restores the road more quickly for our customers.

To better understand the performance of the agency, SHA, through its Office of CHART and ITS Development, collects (through both in-house and independent evaluations) the average duration of incidents occurring on Maryland highways. The "average incident duration" is a measure of the time it takes a response unit to arrive, plus the elapsed time between the arrival of the first unit and the time stamp in the CHART system denoting the restoration of normal operating conditions. This data is tracked and recorded in real-time by Operators and the CHART system, and is reported on an annual basis. Other business units use various methods to monitor their response to service disruptions.

As shown in the figure below, the average incident duration between calendar years 2009 and 2014 has consistently been less than 30 minutes, and has been less than the lower benchmark value (24 minutes – Missouri) for the last four years (2011 – 2014). The desired short-term goal is to continue to identify strategies that will maintain the downward trend and facilitate further improvement in this area.

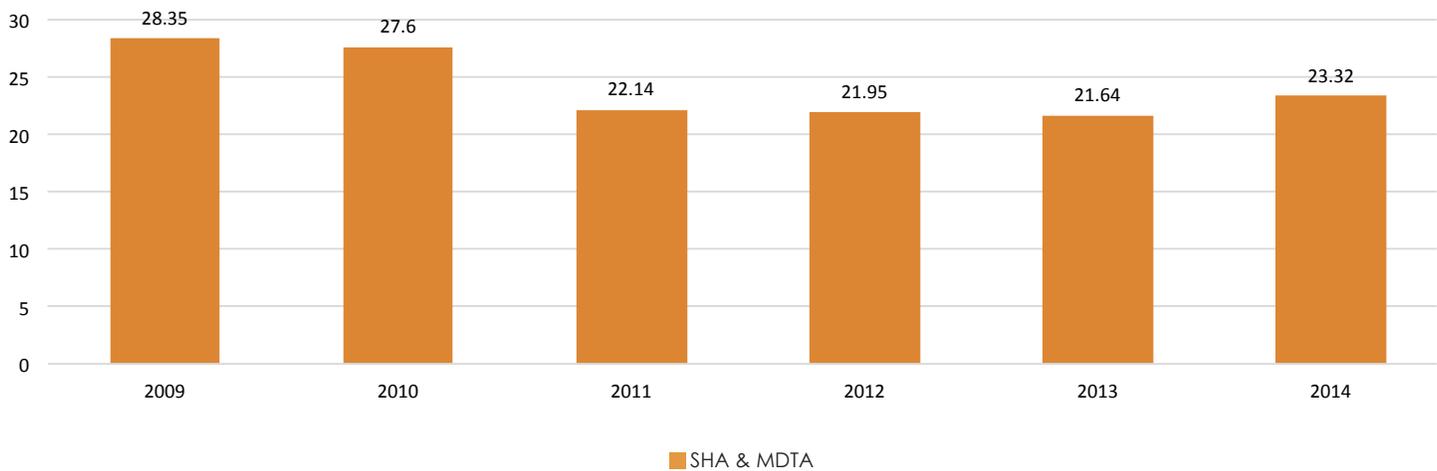
# Provide an Efficient, Well-Connected Transportation Experience



## PERFORMANCE MEASURE 5.2A

Restoring Transportation Services: Average Time to Restore Normal Operations After Disruptions

Average Highway Incident Duration (minutes)



# Provide an Efficient, Well-Connected Transportation Experience

## TANGIBLE RESULT DRIVER:

Phil Sullivan

Maryland Transit Administration (MTA)

## PERFORMANCE MEASURE DRIVER:

Glenn McLaughlin

State Highway Administration (SHA)

## PURPOSE OF MEASURE:

To understand the impact on efficiency of quickly restoring transportation services after weather events.

## FREQUENCY:

Annually (in April)

## DATA COLLECTION METHODOLOGY:

The methodology involves an analysis of operational records collected in real-time, and results are contingent on the scale, number and types of weather events.

## NATIONAL BENCHMARK:

Minnesota – 3 hours

Washington, DC – 18 hours

Missouri – 3.8 hours

## PERFORMANCE MEASURE 5.2B

### Restoring Transportation Services: Average Time to Restore Normal Operations After a Weather Event

MDOT's customers expect a safe, well-maintained, efficient and reliable transportation system with minimal disruption to travel. Disruptions in travel due to inclement weather (snow, ice, etc.) require specialized operations experience and rapid response to restore normal operating conditions. This is important to customers who need to do business or take care of family and need access to the transportation system.

To better understand the performance of the agency, SHA, through its Office of Maintenance, collects data on the "average time to restore normal operations after weather events." Performance is tracked and measured against prior years to identify trends and improve statewide and local operations. The performance measure is calculated by identifying the lapse in time from the ending of frozen precipitation in a maintenance shop's area of responsibility and the occurrence of bare (wet or dry) pavements on the interstate and primary highways it maintains. The latest SHA-wide datum reported was for FY 2015 and is 2.2 hours (4 hours was the target). Other business units use various methods to monitor their response to service disruptions.

As shown in the figure below, the average time to restore normal operations after weather events for the years 2011 through 2014 have consistently been less than the benchmark value (3.8 hours – Missouri). Considering this, the desired short-term goal is to continue to identify strategies to reduce time to restore normal operations after these events.

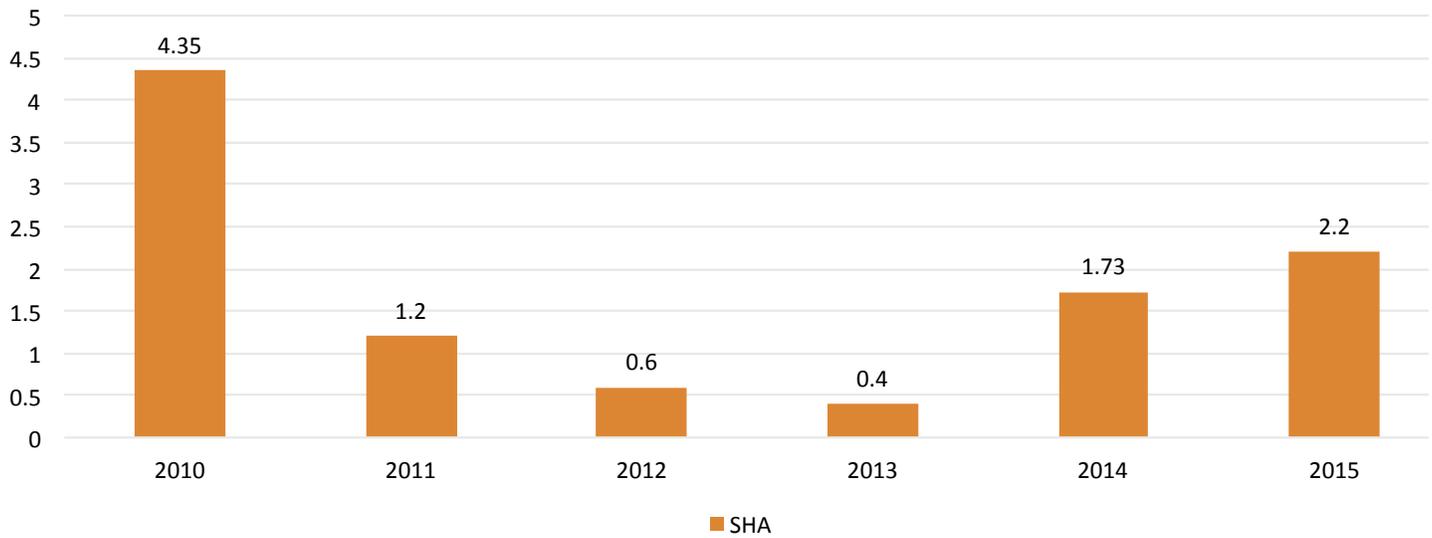
# Provide an Efficient, Well-Connected Transportation Experience



## PERFORMANCE MEASURE 5.2B

Restoring Transportation Services: Average Time to Restore Normal Operations After a Weather Event

Time to Regain Bare Pavement After Snow (hours)



# Provide an Efficient, Well-Connected Transportation Experience

## TANGIBLE RESULT DRIVER:

Phil Sullivan

Maryland Transit Administration (MTA)

## PERFORMANCE MEASURE DRIVER:

Sharon Rutzebeck

Motor Vehicle Administration (MVA)

## PURPOSE OF MEASURE:

To measure percentage of services through alternate methods other than in-person visit as an indicator of easy and reliable access to MDOT services and products.

## FREQUENCY:

Semi-Annually (in April and October)

## DATA COLLECTION METHODOLOGY:

Formula accounts for total customer transportation services and products compared to those acquired by alternate methods.

## NATIONAL BENCHMARK:

FY2018 - 68%

## PERFORMANCE MEASURE 5.3

### Percent of Transportation Services and Products Provided Through Alternative Service Delivery (ASD) Methods

MDOT customers want easy and reliable access to acquire transportation services and products. According to a 2015 Pew Research Center study, 42 percent of Americans use the internet to get government services and/or information and 22 percent use the internet to make or receive payments. In general, it is anticipated that 68 percent of MDOT customers will use alternate methods to access our services and goods.

Presently, SHA, MDTA, MTA and MVA provide transportation related services and products to customers through alternative service delivery (ASD) methods such as web, kiosk, call service center/IVR and mail-in. MAA and MPA have mid-term projects in the planning stages to offer pre-pay parking options to airport and cruise terminal customers.

For the reporting period FY 2016 (July 2015 – June 2016) SHA conducted 100 percent; MDTA achieved 86 percent; MTA realized 42 percent and MVA achieved 57 percent of its total eligible services and products via alternate methods. Combined, these TBUs achieved an ASD rate of 63 percent which is nearing the FY 2018 national standard of 68 percent.

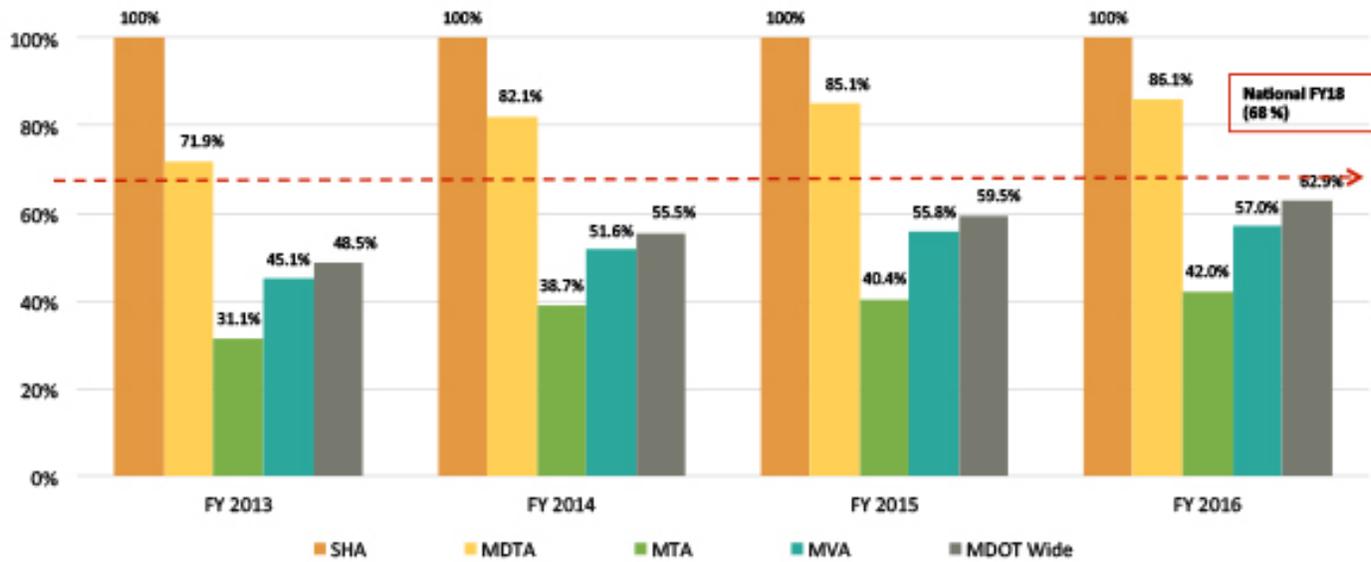


# Provide an Efficient, Well-Connected Transportation Experience

## PERFORMANCE MEASURE 5.3

Percent of Transportation Services and Products Provided Through Alternative Service Delivery (ASD) Methods

Percent of Transportation Services Provided Through Alternative Delivery Methods



# Provide an Efficient, Well-Connected Transportation Experience

## TANGIBLE RESULT DRIVER:

Phil Sullivan

Maryland Transit Administration (MTA)

## PERFORMANCE MEASURE DRIVER:

Ralign T. Wells

Maryland Aviation Administration

(MAA)

## PURPOSE OF MEASURE:

To assess the functionality and value of real-time signage and information systems offered.

## FREQUENCY:

Quarterly for functionality.

Annually for customer satisfaction (in July)

## DATA COLLECTION METHODOLOGY:

Sampling of real-time signage or IVR systems to determine a percentage of functionality.

Survey users to assess their opinion of usefulness and satisfaction with Real-Time Information Systems.

## NATIONAL BENCHMARK:

85%-90% Functionality<sup>1</sup>

<sup>1</sup> According to Clever Devices, Industry experts on Real-Time Information technologies

## PERFORMANCE MEASURE 5.4A AND 5.4B

### Percent of Functional Real-Time Information Systems Provided; Reliance and Customer Satisfaction with the Accuracy of Real-Time Signage Provided

MDOT customers of MTA, MVA, MAA, SHA and MDTA, benefit from “real-time” information systems installed throughout the transportation network offering users the most accurate information available to help them prepare for, and manage their time while using, statewide transportation services. For example, MTA Light Rail and bus services and MAA shuttles have or will soon offer next vehicle arrival information signage. MVA offers Interactive Voice Response (IVR) systems, providing users with predicted wait time information. CHART, a joint effort of MDOT, MDTA, SHA and the Maryland State Police (MSP) in cooperation with Federal, State and local agencies, uses a teamwork approach and state of the art technology to provide “real-time” travel information to highway network users.

These real-time systems must be operational at all times to ensure that users have access to the best available information. System inspections are critical to ensuring that the information systems are functioning as designed. Further, annual surveys are being developed to assess customer satisfaction with the real-time information systems.

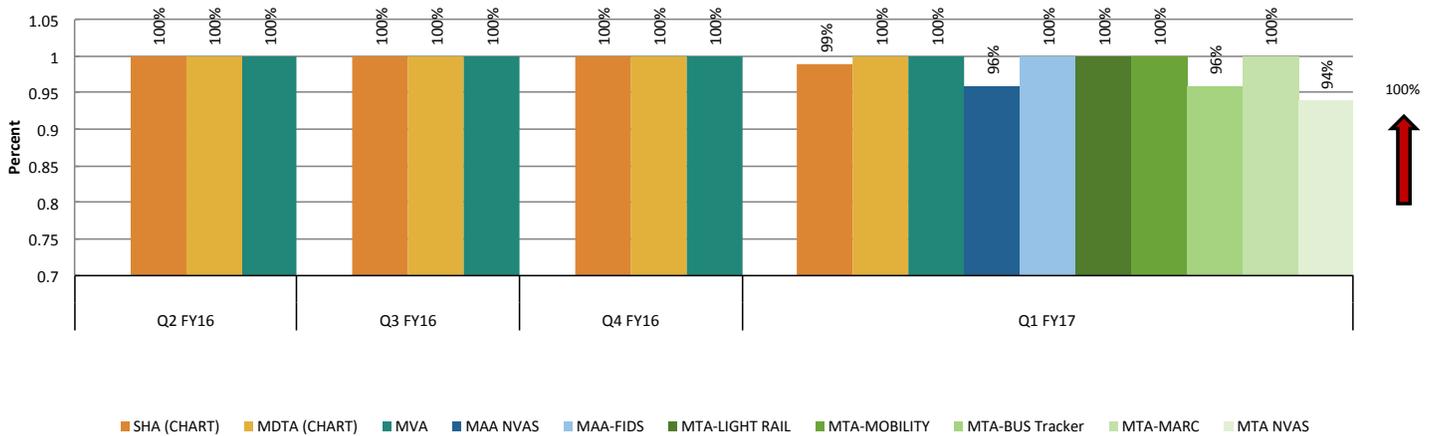
# Provide an Efficient, Well-Connected Transportation Experience



## PERFORMANCE MEASURE 5.4A AND 5.4B

Percent of Functional Real-Time Information Systems Provided; Reliance and Customer Satisfaction with the Accuracy of Real-Time Signage Provided

Percentage (%) of Functional Real-Time Information Systems Provided For FY 2016/2017



## TANGIBLE RESULT #6

# Communicate Effectively With Our Customers



Every MDOT employee has to communicate with customers, some on a daily basis. It is critical that we communicate clearly, concisely, timely and accurately with customers.

### RESULT DRIVER:

Diane Langhorne  
*The Secretary's Office (TSO)*

# Communicate Effectively With Our Customers

**TANGIBLE RESULT DRIVER:**  
Diane Langhorne  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**  
Katie Bennett  
*Maryland Transportation Authority (MDTA)*

**PURPOSE OF MEASURE:**  
To examine and analyze the social media activities of each MDOT TBU to gauge if we are communicating effectively with our customers/followers.

**FREQUENCY:**  
Quarterly

**DATA COLLECTION METHODOLOGY:**  
MDOT gathers social media analytics for this measure from MDOT Twitter and Facebook accounts.

**NATIONAL BENCHMARK:**  
N/A

## PERFORMANCE MEASURE 6.1A

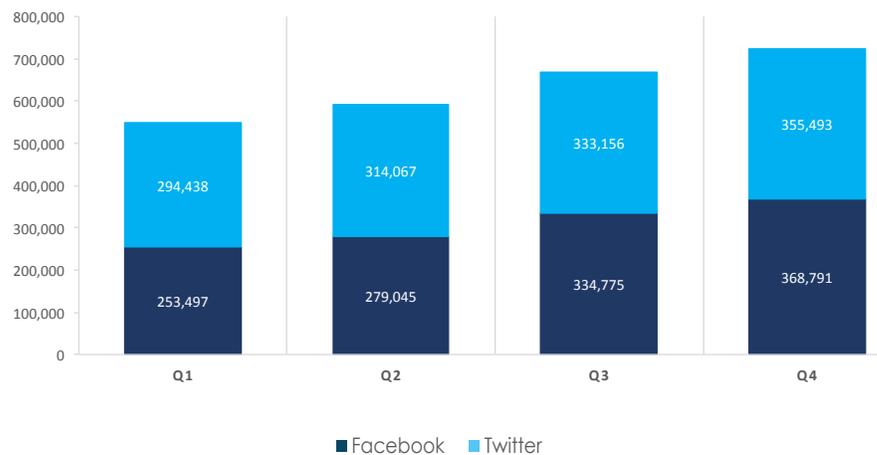
### Communicate Effectively Utilizing Social Media: Social Reach

Social media has become a standard method for businesses to communicate with their customers. MDOT TBUs use social media channels to disburse clear and accurate information to their customers and the media in a timely manner.

“Social Reach” measures the number of customers who have seen a message. MDOT strives to reach customers through the channels they use. Efforts are focused on developing social media strategic skills and programs MDOT-wide to enhance social reach. In 2016, MDOT grew their social following by 44 percent, attracting over 60,000 new followers.

To date, there are approximately 250,000 customers following MDOT social pages. Follower growth continues to steadily increase as we continue striving to reach the customers we impact.

**MDOT Social Media Followers (Dec. 2015 - Nov. 2016)**



# Communicate Effectively With Our Customers

## TANGIBLE RESULT DRIVER:

Diane Langhorne

*The Secretary's Office (TSO)*

## PERFORMANCE MEASURE DRIVER:

Richard Scher

*Maryland Port Administration (MPA)*

## PURPOSE OF MEASURE:

To examine and analyze the social media activities of each MDOT TBU to gauge if we are communicating effectively with our customers/followers.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

MDOT gathers social media analytics for this measure from all MDOT Twitter and Facebook accounts.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 6.1B

### Communicate Effectively Utilizing Social Media: Social Engagement

While “social reach” measures the total number of people who have seen a message, “social engagement” recognizes how followers engaged with that message. Engagements initiate opportunities to communicate interactively with customers.

To determine the effectiveness of its social media communication, MDOT measures social engagement across all MDOT social media accounts, looking for trends in likes, comments and shares in order to better provide content its followers will enjoy and find informative. Through education and training, MDOT staff are determined to heighten the social experience of their customers.

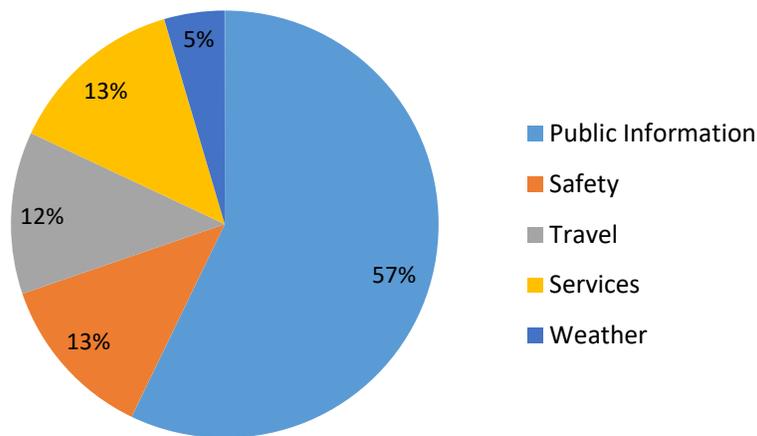
MDOT continues to learn the interests of its customers through social media channels in order to provide the content customers expect.

# Communicate Effectively With Our Customers

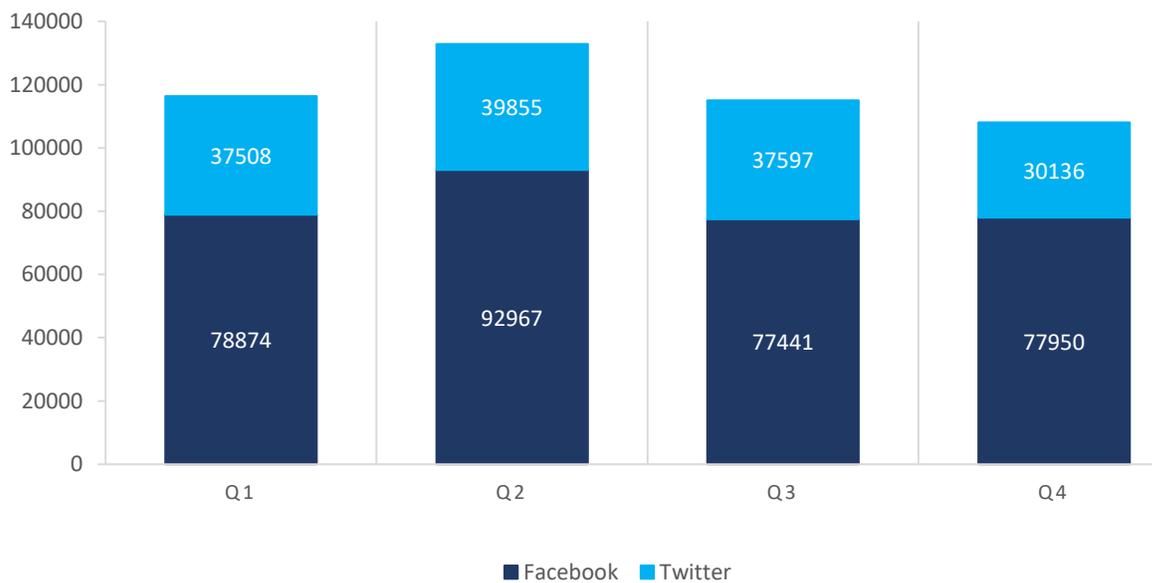
## PERFORMANCE MEASURE 6.1B

### Communicate Effectively Utilizing Social Media: Social Engagement

Number of News Placements



MDOT Social Media Engagements



# Communicate Effectively With Our Customers

## TANGIBLE RESULT DRIVER:

Diane Langhorne  
*The Secretary's Office (TSO)*

## PERFORMANCE MEASURE DRIVER:

Sharon Rutzebeck  
*Motor Vehicle Administration (MVA)*

## PURPOSE OF MEASURE:

To track how clearly and effectively MDOT communicates with customers at public meetings.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Data will be collected via survey at all public meetings hosted by MDOT business units. The data will be owned and housed by the business unit in charge of the public meetings and sent to TSO on a quarterly basis.

## NATIONAL BENCHMARK:

84% (ASCI index)

## PERFORMANCE MEASURE 6.2

### Satisfaction with Communication at Public Meetings

MDOT must effectively, efficiently and communicate often with our customers. Effective communication is the key to project success and partnering with the transportation community. Transportation planners, engineers and construction professionals may unknowingly use language, graphics, maps and renderings that can be difficult for MDOT customers to understand.

If MDOT neglects to convey important project details and information, customer misunderstanding can result and possibly lead to failure some most beneficial projects. Effective communication also requires MDOT employees and contractors to listen and interact with customers to ensure their concerns are heard and they have been provided with ample opportunity to comment. Through the use of a standardized survey across all TBUs, MDOT will measure and track customer perception of how clearly and effectively MDOT personnel communicate at public meetings. This will ensure that the Department is providing the right solution for everyone involved in transportation projects. Customer survey results and individual feedback will allow MDOT to adjust each public presentation in order to better meet the needs of our customers.

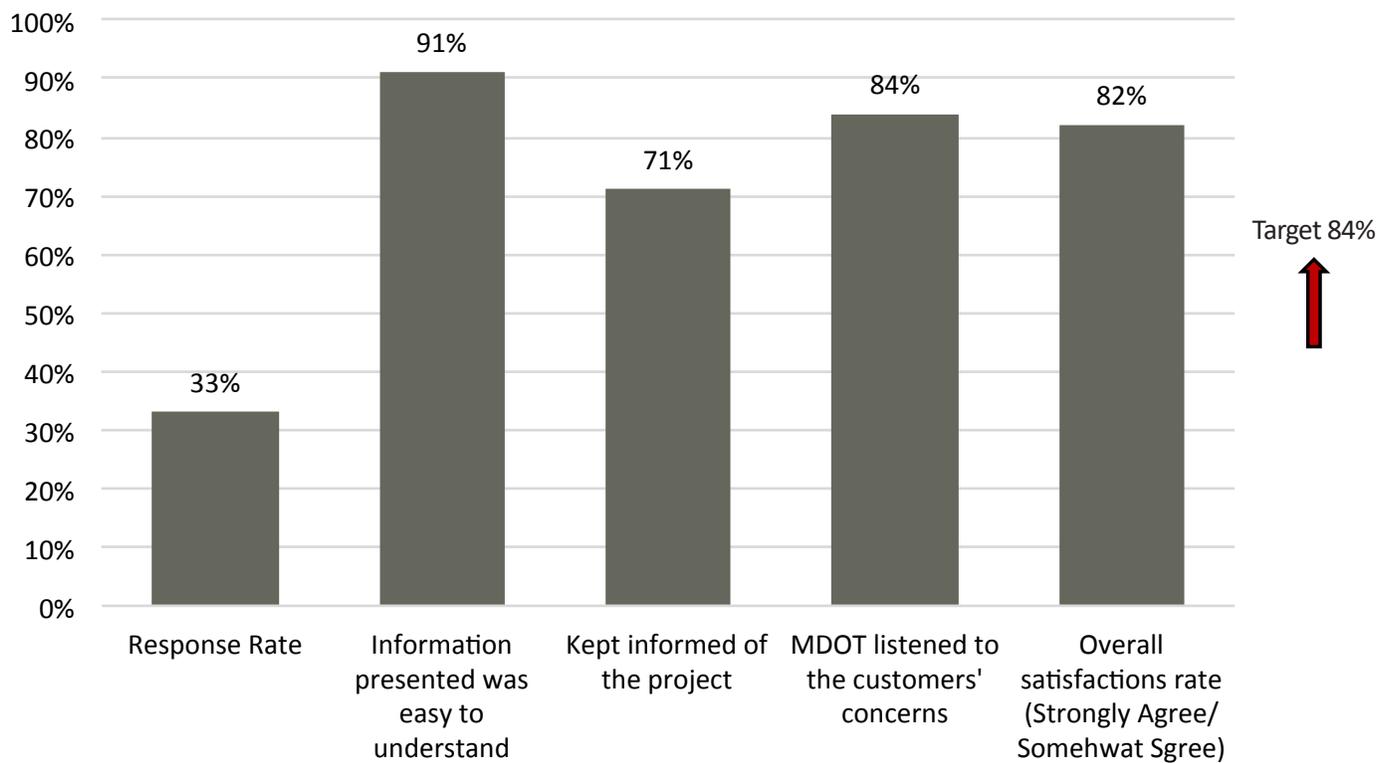


# Communicate Effectively With Our Customers

## PERFORMANCE MEASURE 6.2

### Satisfaction with Communication at Public Meetings

Satisfaction with Communication at Public Meetings FY17 Quarter 1



# Communicate Effectively With Our Customers

## TANGIBLE RESULT DRIVER:

Diane Langhorne

*The Secretary's Office (TSO)*

## PERFORMANCE MEASURE DRIVER:

Annette Fisher

*Maryland Aviation Administration  
(MAA)*

## PURPOSE OF MEASURE:

To track number of stories generated to ensure maximum customer reach.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Data can be derived through software systems.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 6.3A

### Communicate Effectively Through News Releases: Number of News Stories Generated from Major Releases

News releases being picked up and editorialized by large news media outlets are still the most commonly used method by which customers receive information about MDOT products and services. This process also acts as an incredible cost-savings. News stories generated as a result of an MDOT release provide savings to the taxpayer and allows MDOT to maximize every transportation dollar.

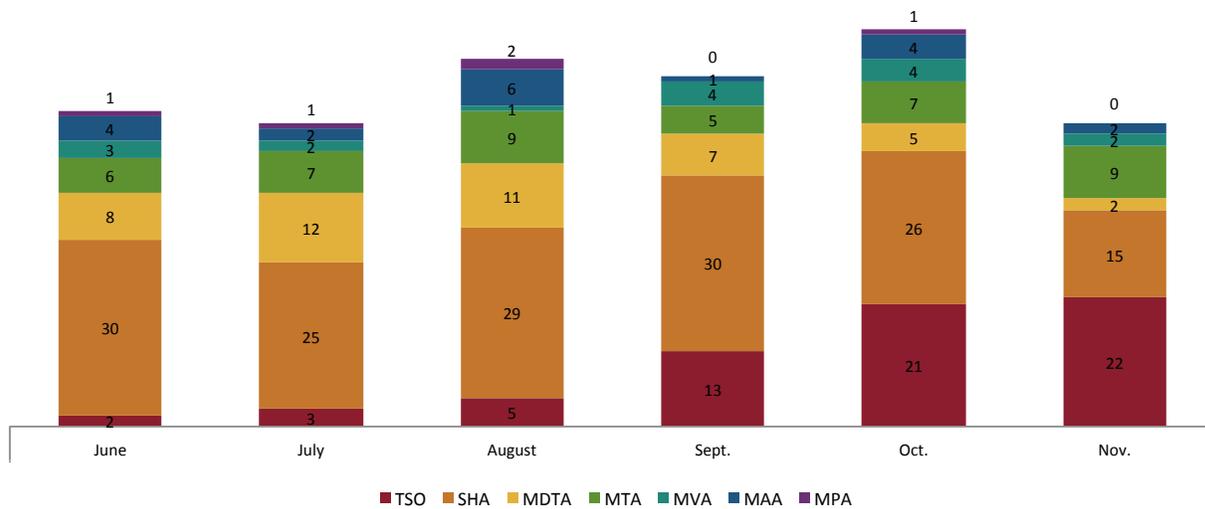
The agencies responsible for providing transportation access to the citizens of Maryland inform customers about "News You Can Use," information they need regarding transportation services and projects. This measure shows the value of news releases by determining the reach of news releases, thereby saving taxpayer dollars (reaching customers with news and information without purchasing advertising).

# Communicate Effectively With Our Customers

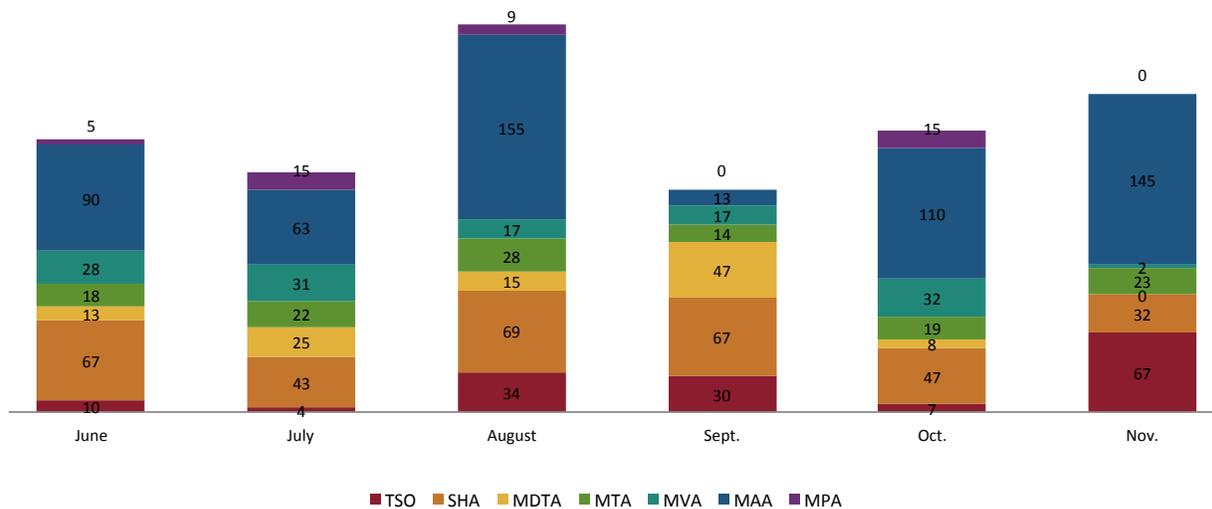
## PERFORMANCE MEASURE 6.3A

Communicate Effectively Through News Releases: Number of News Stories Generated from Major Releases

Number of News Releases



Number of News Placements



# Communicate Effectively With Our Customers

## TANGIBLE RESULT DRIVER:

Diane Langhorne  
*The Secretary's Office (TSO)*

## PERFORMANCE MEASURE DRIVER:

Valerie Burnette Edgar  
*State Highway Administration (SHA)*

## PURPOSE OF MEASURE:

To evaluate the effectiveness of the news releases issued by MDOT. Demonstrates cost effectiveness of releasing public information to media outlets vs. buying advertising space/time.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Data can be derived through software systems and some of the data is calculated per news story by individuals using advertising rates of media outlets.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 6.3B

### Communicate Effectively Through News Releases: Earned Media Value of Print and Broadcast Coverage Generated by News Releases

Print and broadcast media are the industry standard for business to customer communication. To reach its customers, MDOT has the option to buy ad space in the market or to issue news releases that are then picked up and editorialized by large publications. The latter offers a significant cost-savings to MDOT and the tax-paying public while allowing for MDOT messages to reach more customers quickly and efficiently.

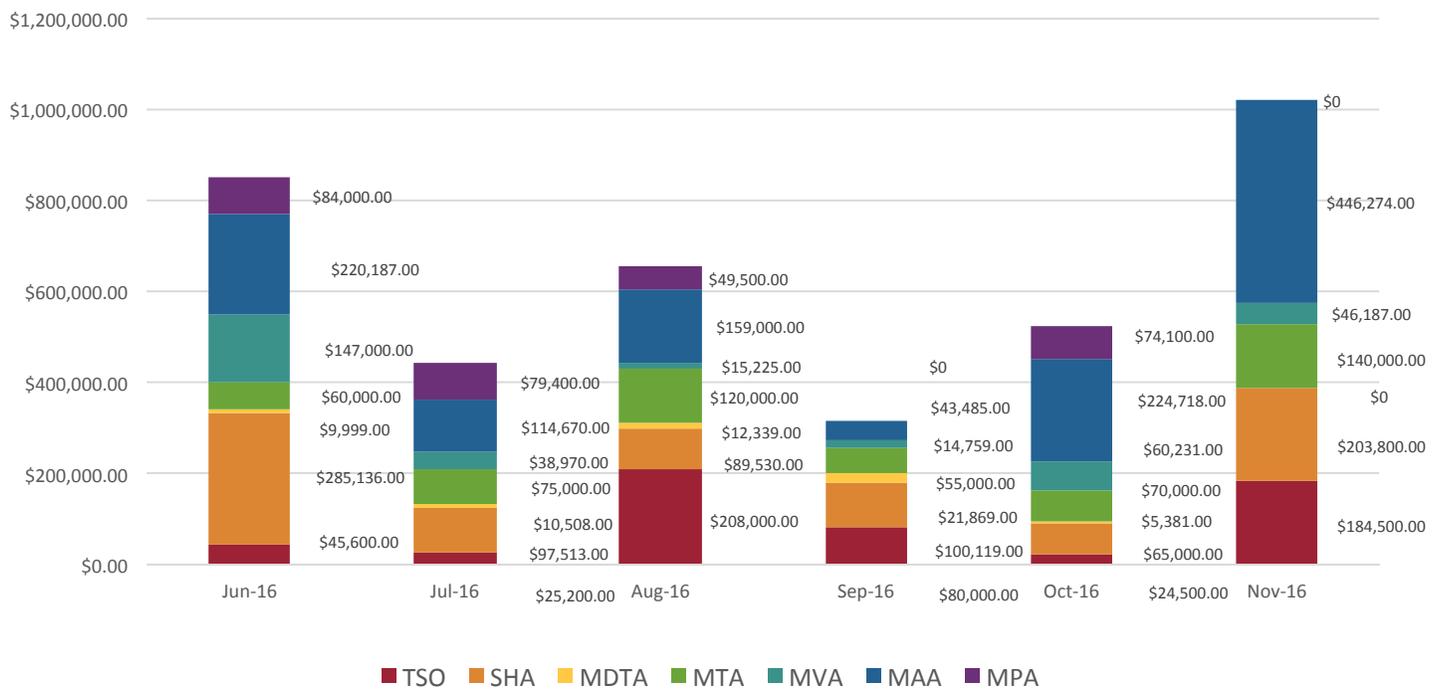
MDOT issues news releases to inform customers of important information they need regarding transportation services and projects. This measure shows the value of print and broadcast stories generated by news releases to determine the cost effectiveness of news releases (reaching customers with news and information without purchasing advertising for public notice).

# Communicate Effectively With Our Customers

## PERFORMANCE MEASURE 6.3B

Communicate Effectively Through News Releases: Earned Media Value of Print and Broadcast Coverage Generated by News Releases

2016 YTD Earned Media Value (EMV)



\*MDOT-Wide EMV totals over \$3.8 million

# Communicate Effectively With Our Customers

**TANGIBLE RESULT DRIVER:**

Diane Langhorne  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Valerie Burnette Edgar  
*State Highway Administration (SHA)*

**PURPOSE OF MEASURE:**

To evaluate the tone of media coverage resulting from news releases.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

MDOT's team will use software that tracks releases and news generated to evaluate tone of news stories.

**NATIONAL BENCHMARK:**

N/A

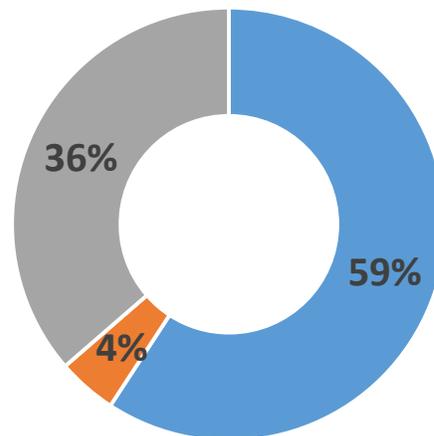
**PERFORMANCE MEASURE 6.3C**

## Communicate Effectively Through New Releases: Evaluate Tone of News Stories by Publications Generated from MDOT Releases

MDOT has a responsibility to inform customers about important information they need relating to services, transportation options and improvements in their communities. One way MDOT shares information is through issuing news releases to the media.

This measure helps MDOT evaluate the tone of print and broadcast news stories that are directly related to MDOT news releases to determine if there is balanced coverage for customers. It also helps MDOT determine if more, less or different information is needed to ensure customers are receiving factual information via news outlets.

2016 YTD "News Tone" MDOT-Wide



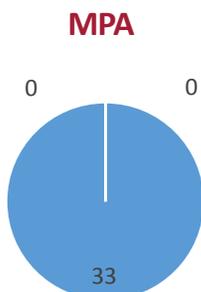
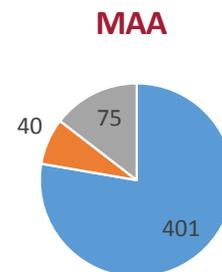
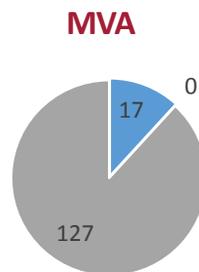
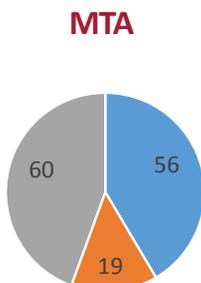
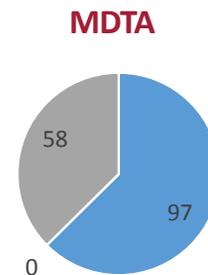
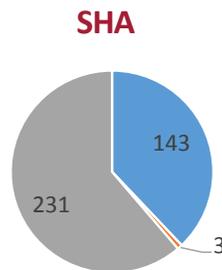
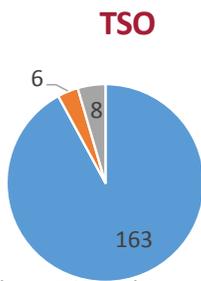
■ Positive ■ Negative ■ Neutral

# Communicate Effectively With Our Customers

## PERFORMANCE MEASURE 6.3C

Communicate Effectively Through New Releases: Evaluate Tone of News Stories by Publications Generated from MDOT Releases

2016 YTD "News Tone" by TBU



■ Positive ■ Negative ■ Neutral

# Communicate Effectively With Our Customers

**TANGIBLE RESULT DRIVER:**

Diane Langhorne  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Lisa Dickerson  
*The Secretary's Office (TSO)*

**PURPOSE OF MEASURE:**

To assess effective communication via translators at public meetings.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

Translated customer survey deployed at the conclusion of each public meeting.

**NATIONAL BENCHMARK:**

N/A

## **PERFORMANCE MEASURE 6.4**

### Communicate Effectively to Customers with English Language Barriers at Public Meetings

Customers, regardless of their proficiency in English, should be able to actively participate in public meetings and review public documents. MDOT is working to provide translation services at all public meetings to ensure that public meetings meet the needs of all of customers, including those with limited English proficiency.

Public meetings are a valuable communication tool for MDOT and its customers. Whether it is a new project that will impact their community or new products and services that impact their transportation experience, public meetings are a place for MDOT customers to receive helpful information.

MDOT is maximizing the use of electronic and social media to achieve this performance measure. Significant progress was made to web sites throughout all of MDOT. MDOT web sites currently allows for translation of over 160 languages and dialects via "Google Translation". Data collection at all TBUs has been standardized and the data includes information from all TBUs except MTA, which will be included in the next report.

During September, October, and November, we tracked 169,550 Google Translations in 148 different languages and dialects. The top five translations were Spanish, English, French, Chinese, and Vietnamese. Those translating to English are most common on the MAA and MPA web sites, suggesting that the user is switching to English on a browser with a different default language. The following tables highlight the different customer bases using TBU web sites.

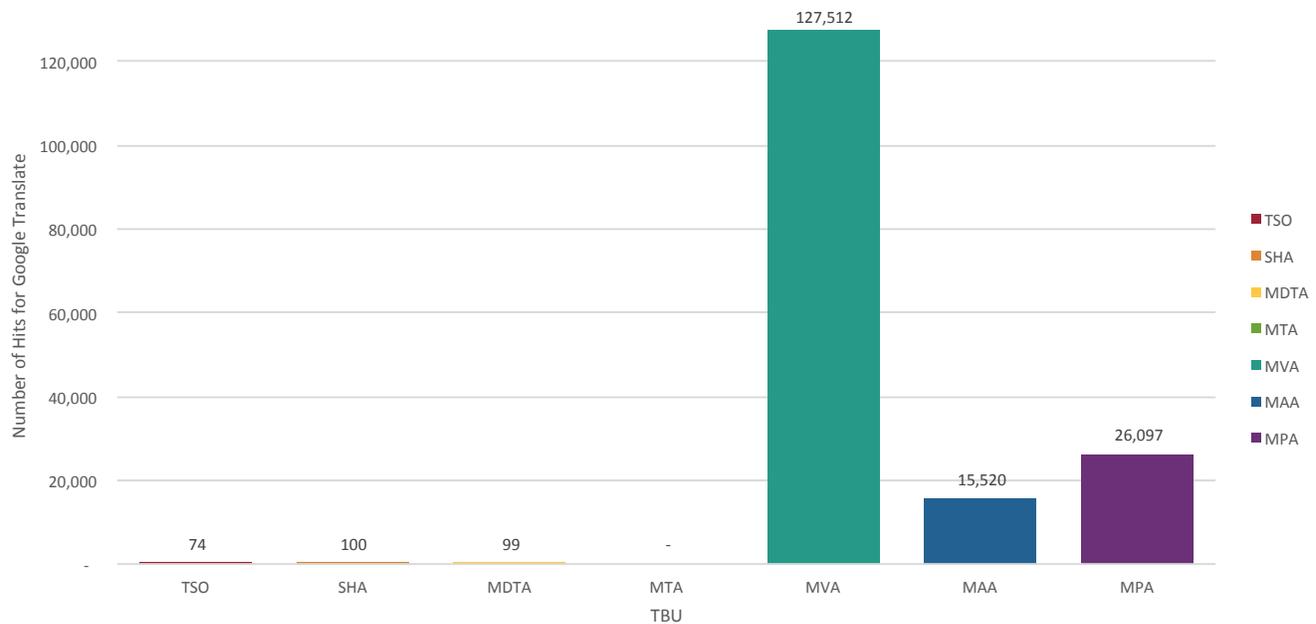
Regulations require only the posting of vital documents—Title VI Plan, Process, and Complaint Procedures. Our overall strategy is to institutionalize use of translated documents posted electronically and in print for MDOT Public Hearings/Meetings.

# Communicate Effectively With Our Customers

## PERFORMANCE MEASURE 6.4

Communicate Effectively to Customers with English Language Barriers at Public Meetings

Total Usage for Google Translate by TBU

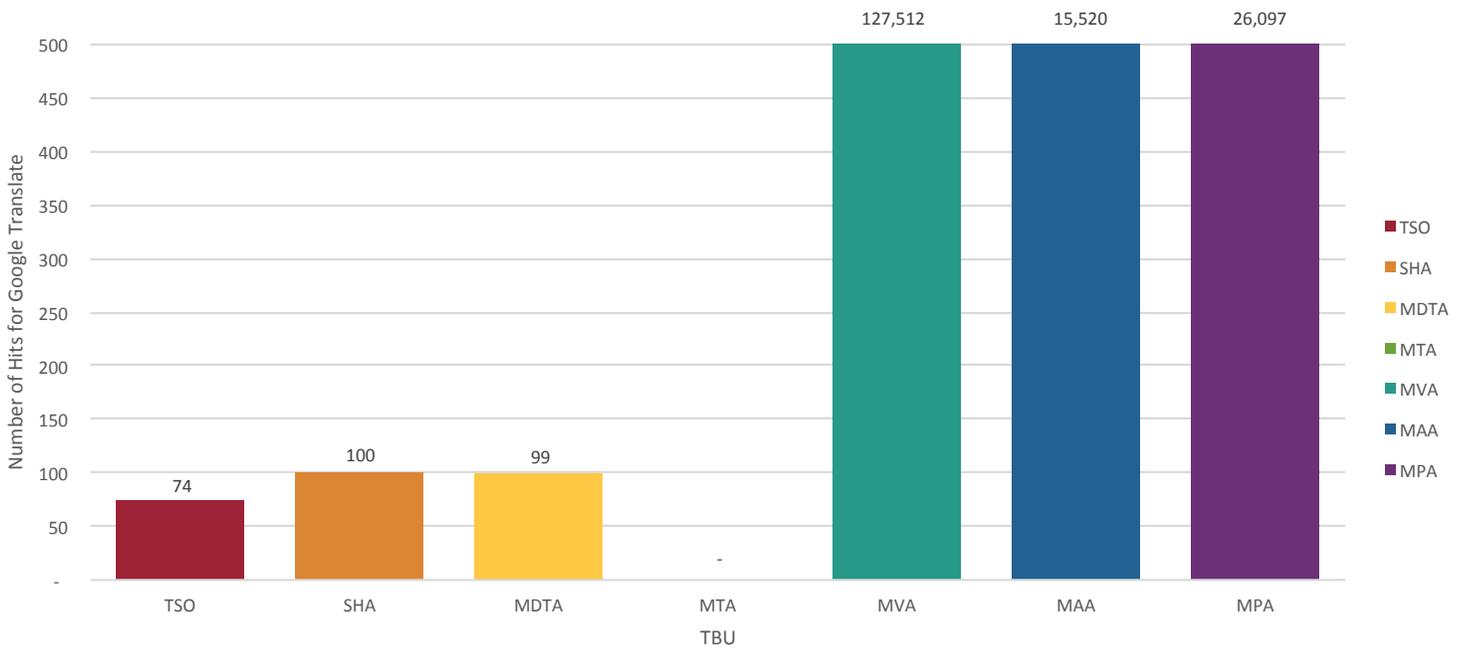


# Communicate Effectively With Our Customers

## PERFORMANCE MEASURE 6.4

Communicate Effectively to Customers with English Language Barriers at Public Meetings

Total Usage for Google Translate by TBU



# Communicate Effectively With Our Customers

## PERFORMANCE MEASURE 6.4

### Communicate Effectively to Customers with English Language Barriers at Public Meetings

MARYLAND DEPARTMENT OF TRANSPORTATION  
MARYLAND TRANSIT ADMINISTRATION

**NOTICE OF PUBLIC HEARINGS**

Proposed  
New Express Commuter Bus Service  
Baltimore • Annapolis • Kent Island  
Line Nos. 210 and 215

**BALTIMORE**  
**LINK**

Where you want to go

Maryland Department of Transportation MTA Maryland

Locations are accessible for people with disabilities. For more information or to request additional accommodations, an interpreter, or this information in an alternate format or translated, please contact the department listed below.

Los sitios tienen acceso para personas con discapacidades. Para mayor información o para requerir acomodos adicionales, un intérprete o esta información traducida o en formato alterno, por favor contacte al departamento enlistado abajo.

К площадкам обеспечен доступ для людей с ограниченными возможностями. За дополнительной информацией или для запроса на получение дополнительных приспособлений, услуг переводчика либо перевода данной информации или ее получения в другом формате, обращайтесь в отдел, указанный ниже.

이들 장소에는 장애인들도 접근할 수 있습니다. 아래에 기재된 부서에 연락하시어 자세한 정보, 장애인용 부가 시설, 통역사, 또는 이 정보의 번역본이나 다른 매체로 제공해 줄 것을 요청하시기 바랍니다.

地点方便残障人士进入。欲了解更多信息或要求其它安排、口译服务、翻译本信息或本信息的其它格式，请与以下列出的部门联系。

MTA Office of Customer and Community Relations  
410-767-3999 • 866-743-3682  
TTY 410-539-3497 • MD Relay Users Dial 7-1-1

# Communicate Effectively With Our Customers

## TANGIBLE RESULT DRIVER:

Diane Langhorne  
*The Secretary's Office*

## PERFORMANCE MEASURE DRIVER:

Annette Fisher  
*The Maryland Aviation Administration  
(MAA)*

## PURPOSE OF MEASURE:

To track news customers can use 24/7.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Supported by all MDOT Communications Directors, measurement will include tracking estimates of media outlets that cover pitched stories and the number of pitches generated each month from submitting news releases.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 6.5

### News Customers Can Use – Proactive Media Stories

We are excited to introduce a new measure called Proactive Media. This dynamic strategy will create transportation news, compelling human interest stories and content focusing on “News Customers Can Use,” from all MDOT’s Business Units.

Proactive Media will communicate effectively with our customers through all facets of media including radio, television, print and social media. These endless benefits will include the following:

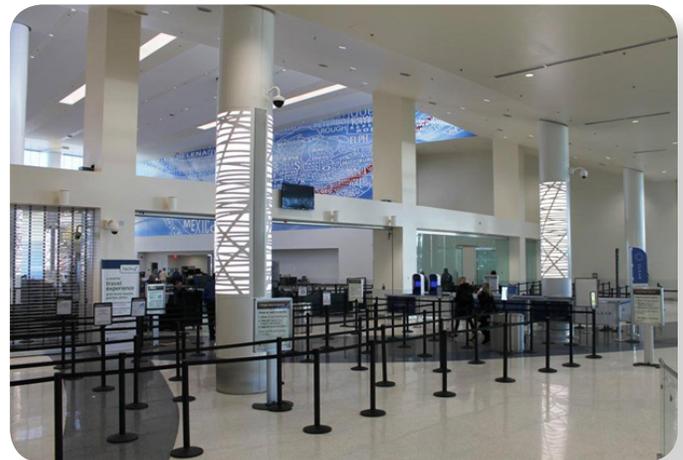
- Increase awareness -To truly remain top of mind in media, build a strategic process with compelling stories to grab the attention of the customer.
- Communicate effectively daily – Communicating key messages on policies, activities and events for all MDOT business units.
- Educate the public – How will this affect each customer?



# Communicate Effectively With Our Customers

## PERFORMANCE MEASURE 6.5

News Customers Can Use – Proactive Media Stories



TANGIBLE RESULT #7

## Be Fair and Reasonable to Our Partners



MDOT will provide an easy, reliable procurement experience throughout the system.

**RESULT DRIVER:**

Wanda Dade

*State Highway Administration (SHA)*

# Be Fair and Reasonable to Our Partners

## TANGIBLE RESULT DRIVER:

Wanda Dade

*State Highway Administration (SHA)*

## PERFORMANCE MEASURE DRIVER:

Angela Martin

*Maryland Aviation Administration*

*(MAA)*

## PURPOSE OF MEASURE:

To track MBE participation achieved on contracts within MDOT.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

MDOT TBUs report the data on a quarterly basis to Governor's Office of Minority Affairs (GOMA) and MDOT. The information will be provided by MDOT from that report.

## NATIONAL BENCHMARK:

N/A

The state goal/benchmark is 29 percent.

## PERFORMANCE MEASURE 7.1

### Percentage of Minority Business Enterprise (MBE) Participation Achieved by Each TBU

The MBE program is a statewide program to facilitate minority business participation on contracts. Each MDOT TBU tracks MBE participation data for internal program monitoring. Participation is reported on a quarterly year to date basis.

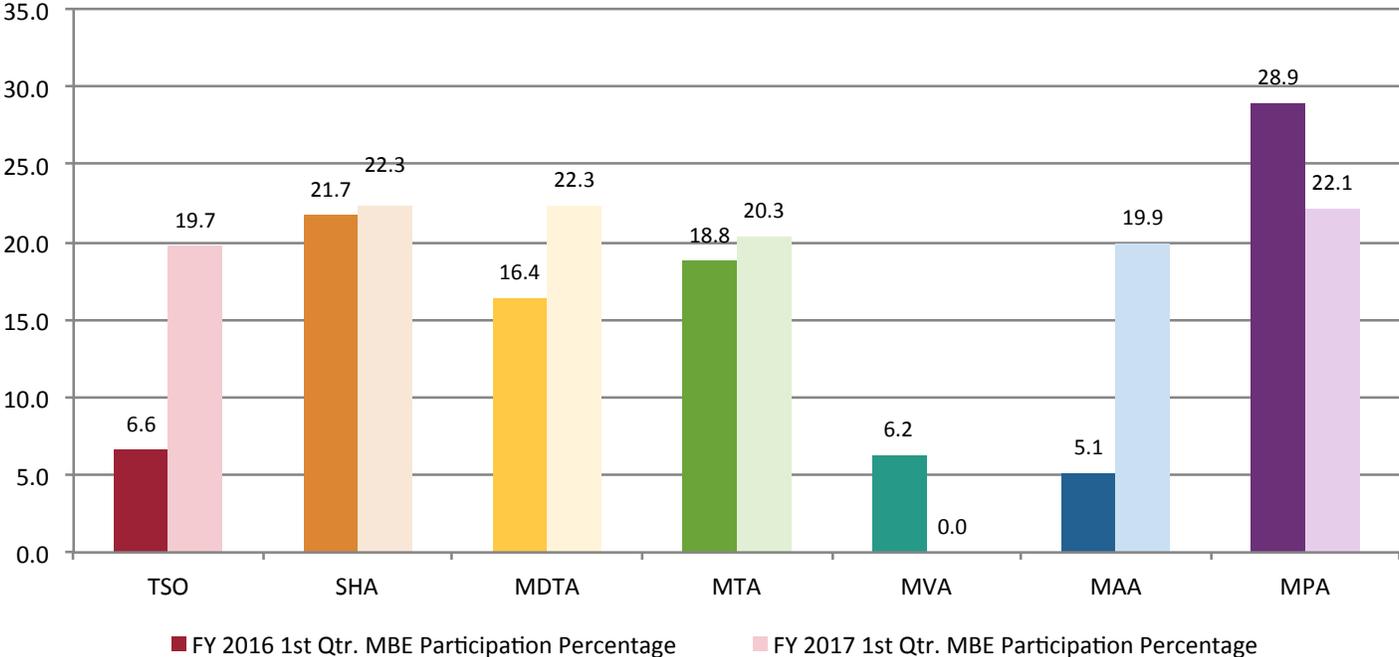
- MDOT MBE participation for first quarter FY 2017 was 21.1 percent (average of all TBUs, except MVA), reflecting a slight increase from the average of the year to date participation reported for FY 2016, which was 18.72 percent. Participation at the TBUs ranged from 19.70 percent to 22.33 percent.
- MDOT MBE Participation for FY 2016 and the first quarter of FY 2017 is lower due to the deletion of non-profit contract dollars. However, first quarter FY 2017 is higher than the participation reported during the first Tangible Results meeting in April 2016, which was 16.9% (for the first two quarters). The strategic plan includes information on efforts being taken to review and address this issue.
- MDOT MBE Participation for FY 2015 was 25.2 percent (average of all TBUs).

# Be Fair and Reasonable to Our Partners

## PERFORMANCE MEASURE 7.1

Percentage of Minority Business Enterprise (MBE) Participation Achieved by Each TBU

MBE Participation by TBU, 1st Quarter Comparison FY 2016 v. FY 2017

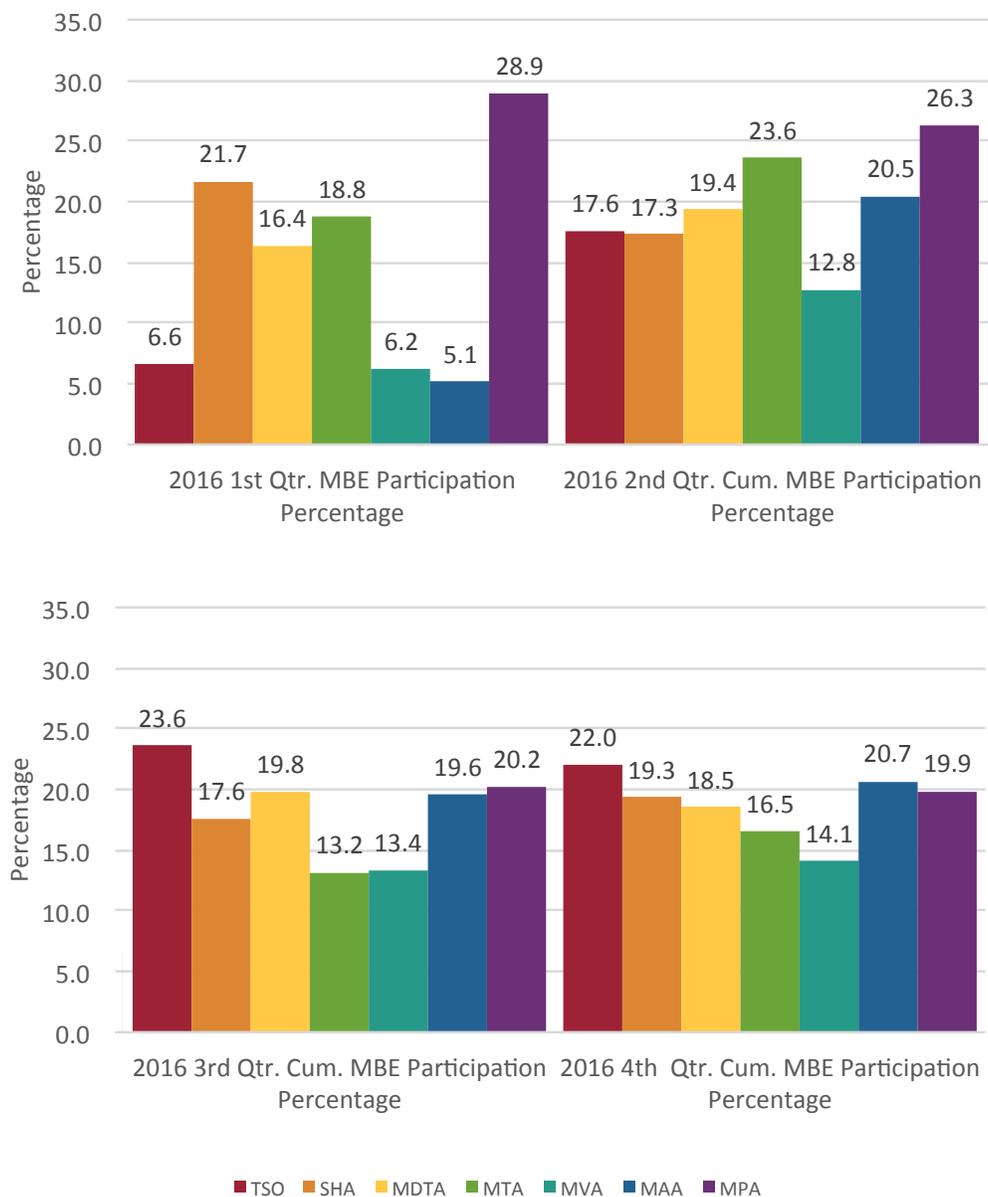


# Be Fair and Reasonable to Our Partners

## PERFORMANCE MEASURE 7.1

Percentage of Minority Business Enterprise (MBE) Participation Achieved by Each TBU

MBE Participation by TBU



# Be Fair and Reasonable to Our Partners

**TANGIBLE RESULT DRIVER:**

Wanda Dade  
State Highway Administration (SHA)

**PERFORMANCE MEASURE DRIVER:**

Angela Martin  
Maryland Aviation Administration (MAA)

**PURPOSE OF MEASURE:**

To track MBE prime contractor participation achieved on contracts within MDOT to ensure MDOT provides opportunities to all of business partners.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

Data will be collected from MDOT and TBUs.

**NATIONAL BENCHMARK:**

N/A

**PERFORMANCE MEASURE 7.2**

**Number and Percent of Contracts Awarded to MBE Firms as the Prime Contractor**

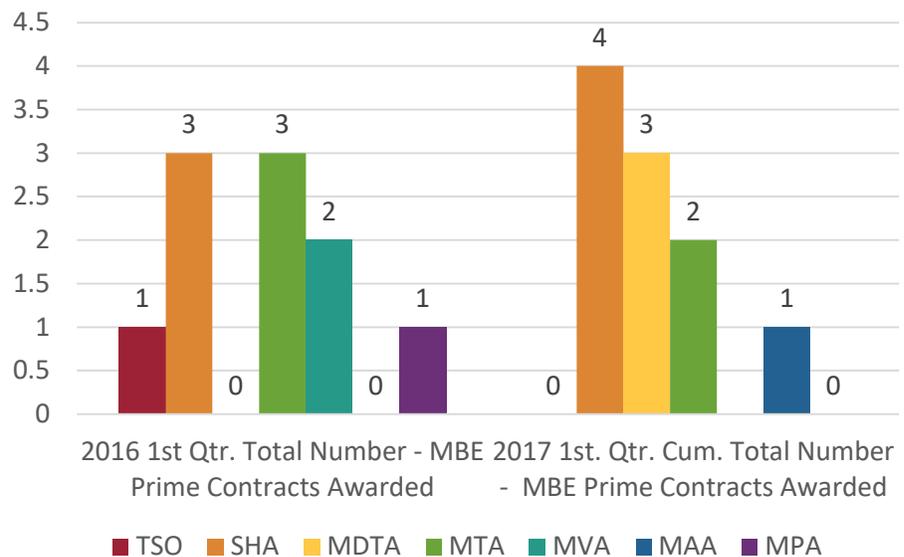
Participation of MBE firms as a prime contractor is important to facilitate their growth and enable them to compete in the general marketplace after graduation. MBE firms “graduate” from the program when reaching designated thresholds (re. company gross receipts and personal net worth of owners).

The information reported in this measure is the number of MBE prime contractors awarded contracts at/above \$500,000. It does not include small purchases. The number of contracts awarded remains fairly low (0 – 4 awards for the first quarter of FY 2017, excluding MVA).

The contracts cover a variety of areas including construction, architectural, engineering, maintenance and services.

Although the percentage of MBE prime awards remained at 10% (the same as the FY 2016 percentage), the actual number of awards at each TBU went down. The strategic plan includes information on efforts being taken to review and address this issue.

**Number of MBE Prime Contracts Awarded**

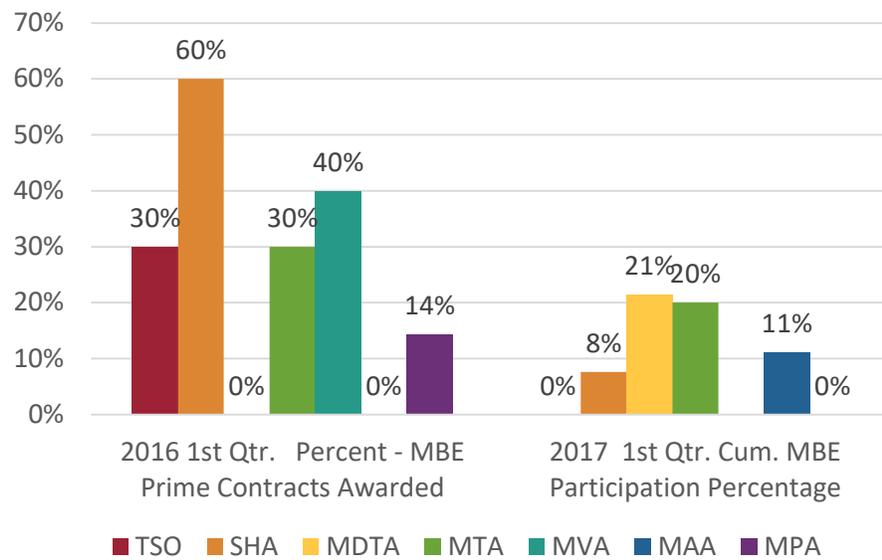


# Be Fair and Reasonable to Our Partners

## PERFORMANCE MEASURE 7.2

Number and Percent of Contracts Awarded to MBE Firms as the Prime Contractor

Percent of MBE Prime Contracts Awarded



# Be Fair and Reasonable to Our Partners

## TANGIBLE RESULT DRIVER:

Wanda Dade

State Highway Administration (SHA)

## PERFORMANCE MEASURE DRIVER:

Wonza Spann-Nicholas

Maryland Port Administration (MPA)

## PURPOSE OF MEASURE:

Track compliance with State mandate for awarding 10 percent of MDOT's total eligible procurement expenditures to certified Small Business Reserve contracts.

## FREQUENCY:

Quarterly, compiled Annually

## DATA COLLECTION METHODOLOGY:

SBR goal is calculated quarterly from eligible contracts and expenditure data exported from FMIS, iFMIS and US Bank for Corporate Credit Card data.

## NATIONAL BENCHMARK:

The Governor's Office on Minority Affairs maintains the State's official record of SBR designation and spending across 23 participating agencies, including MDOT's TBUs.

The State's mandate is 10 percent or better.

## PERFORMANCE MEASURE 7.3

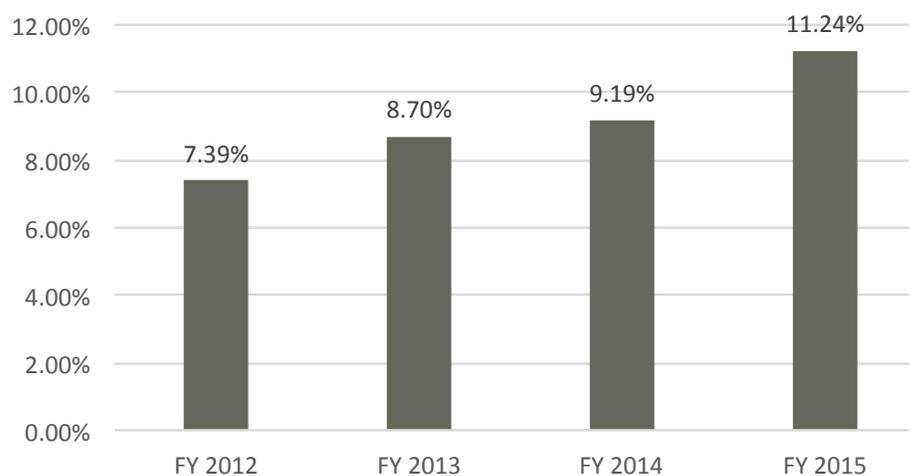
### Percent of Payments Awarded to Small Business Reserve (SBR) Contracts

Maryland's economy is powered by the jobs and innovative resources generated by small businesses. The SBR Program is a race-and gender-neutral program that provides small businesses with the opportunity to participate as prime contractors on State contracts and procurements by competing with other small businesses instead of larger, more established firms.

Each TBU is required to participate in the SBR Program by spending at least 10 percent of their annual fiscal year eligible procurement expenditures with qualified small businesses. For the first time since the SBR Program was established in 2004, MDOT achieved an 11.2 percent participation rate in FY2015.

The Governor's Office of Minority Affairs has not released the FY2016 Annual Achievement rates as of December 5, 2016.

MDOT SBR Achievement Rates

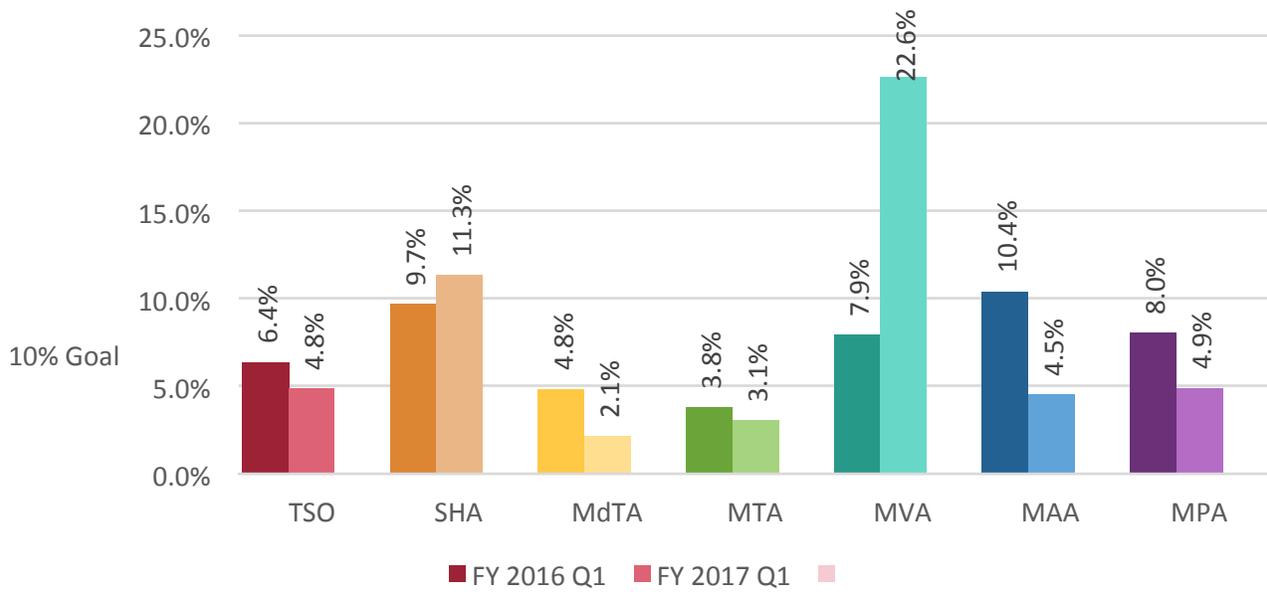


# Be Fair and Reasonable to Our Partners

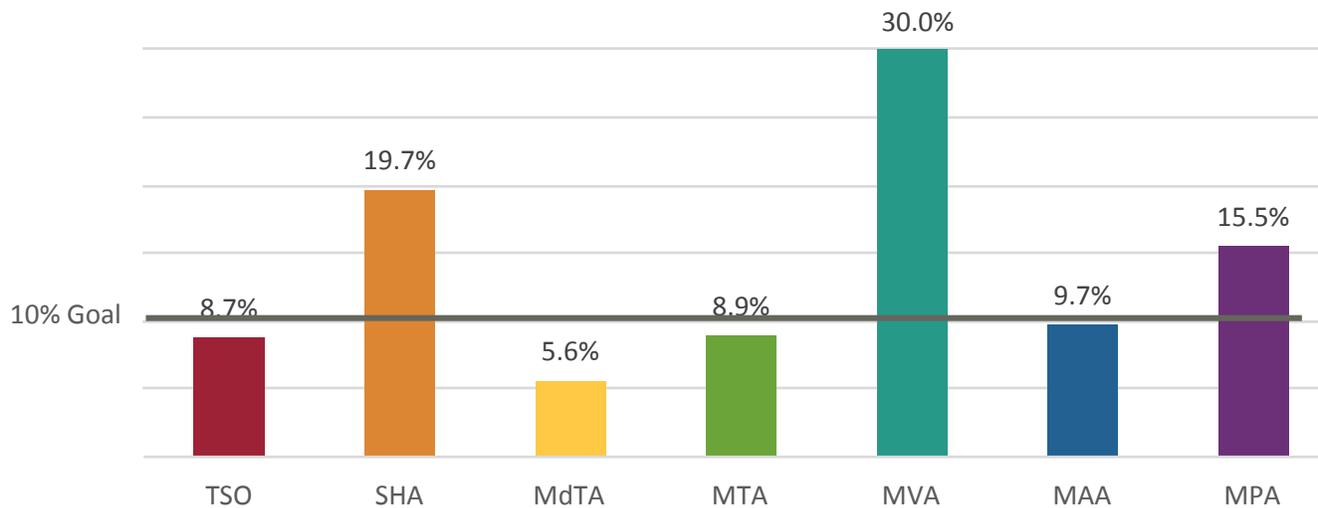
## PERFORMANCE MEASURE 7.3

### Percent of Payments Awarded to Small Business Reserve (SBR) Contracts

FY2016 - FY2017 1st Quarterly - SBR% of Payments



FY 2015 Annual SBR Rate- 11.24%



# Be Fair and Reasonable to Our Partners

**TANGIBLE RESULT DRIVER:**

Wanda Dade  
State Highway Administration (SHA)

**PERFORMANCE MEASURE DRIVER:**

Natalie Grasso  
Motor Vehicle Administration (MVA)

**PURPOSE OF MEASURE:**

To track the percent of VSBE contract values to ensure that MDOT continues a contractual relationship with VSBEs in Maryland.

**FREQUENCY:**

Annually (in January)

**DATA COLLECTION METHODOLOGY:**

Using the Financial Management system at MDOT.

**NATIONAL BENCHMARK:**

N/A

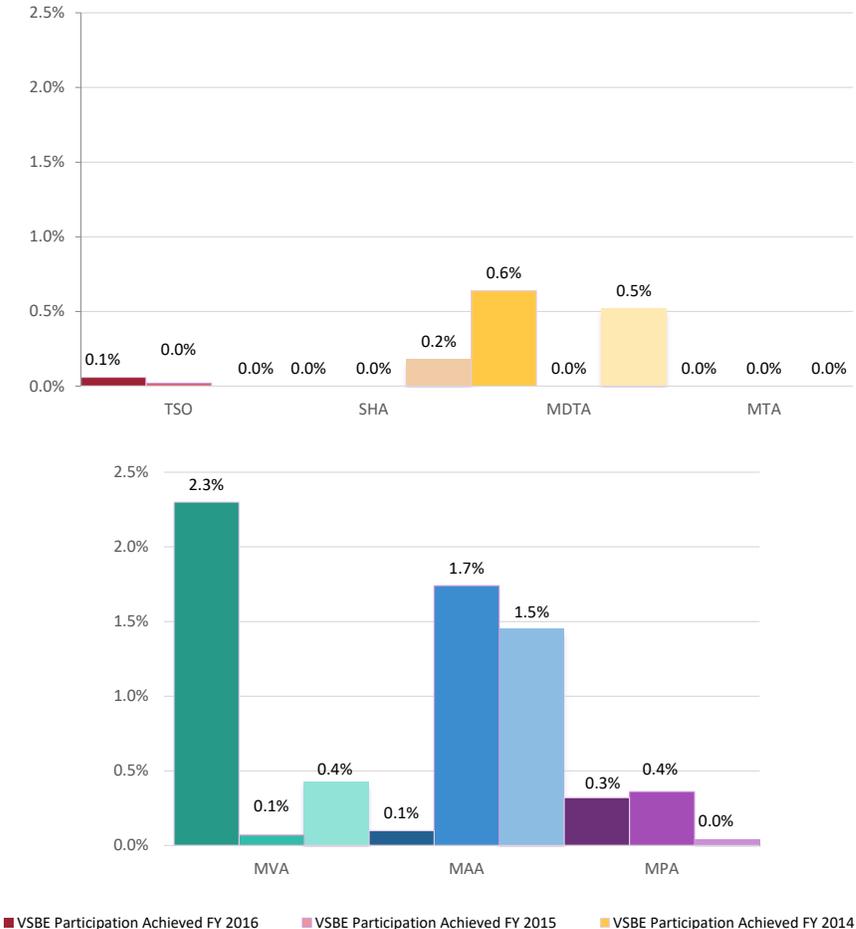
The State's mandate is 1 percent or better of its total dollar value of procurement contracts.

**PERFORMANCE MEASURE 7.4**

**Percent of Veteran Owned Small Business Enterprise (VSBE) Participation**

MDOT considers small business, especially veteran owned small businesses, to be an important sector of the business community. Procurement opportunities for this business segment are directly linked to the socioeconomic well-being of the State of Maryland. MDOT is committed to attaining or exceeding the State mandated goal for veteran businesses.

**VSBE Percentage Across MDOT (FY 2014, FY 2015, FY 2016)**



# Be Fair and Reasonable to Our Partners

## TANGIBLE RESULT DRIVER:

Wanda Dade

State Highway Administration (SHA)

## PERFORMANCE MEASURE DRIVER:

Donna DiCerbo

Maryland Transportation Authority  
(MDTA)

## PURPOSE OF MEASURE:

To determine the level of satisfaction of business partners that attend outreach events, seminars; and satisfaction with processes MDOT-wide.

## FREQUENCY:

Quarterly for outreach, etc.;  
and Annually for MDOT-wide

## DATA COLLECTION METHODOLOGY:

The TBU Data Drivers report provides the data to the MDTA Performance Measure Driver where it is compiled on an Excel spreadsheet and analyzed. The results are provided to MDOT management. It is recommended that an Outlook email address be established for easier quarterly reporting.

## NATIONAL BENCHMARK:

TBD

## PERFORMANCE MEASURE 7.5

### Level of Satisfaction of Our Business Partners

Tracking business partner satisfaction will allow MDOT to determine how satisfied partners are with current business processes. Partners include contractors, consultants, vendors, other state agencies, Federal, State, and local governments, trade associations, commissions, etc. This data can be used to improve those processes that may be ambiguous or cumbersome, and make them more user-friendly. It is important that people who avail themselves of this opportunity know that their comments are taken seriously, and that MDOT is committed to meeting or exceeding business partner expectations.

As reported in January 2016, we clarified that the ultimate goal is to track what types of businesses are attending these events, if they are getting information they need, and if the event was successful in helping to connect potential partners with new opportunities.

Since January, we have shifted our focus from the number of surveys conducted, to identifying the level of satisfaction by our business partners who attend our outreach events, and amended our survey questions accordingly.

Given the shift in survey methodology, not all TBUs had reportable data for this quarter. Of those that did, their data was as follows:

- In FY2015 MVA achieved 92 percent satisfaction with their Smooth Operator Initiative
- In FY2016 MVA achieved 79 percent satisfaction with their Driver Education Curriculum and 100% satisfaction with their MD Impaired Driving Vendor Conference.
- In FY2017 TSO achieved 81 percent satisfaction with their Business Opportunities & Entrepreneurial Training Summit.
- In In FY2017 MDTA achieved 97 percent satisfaction with their 2016 Annual College Fair.

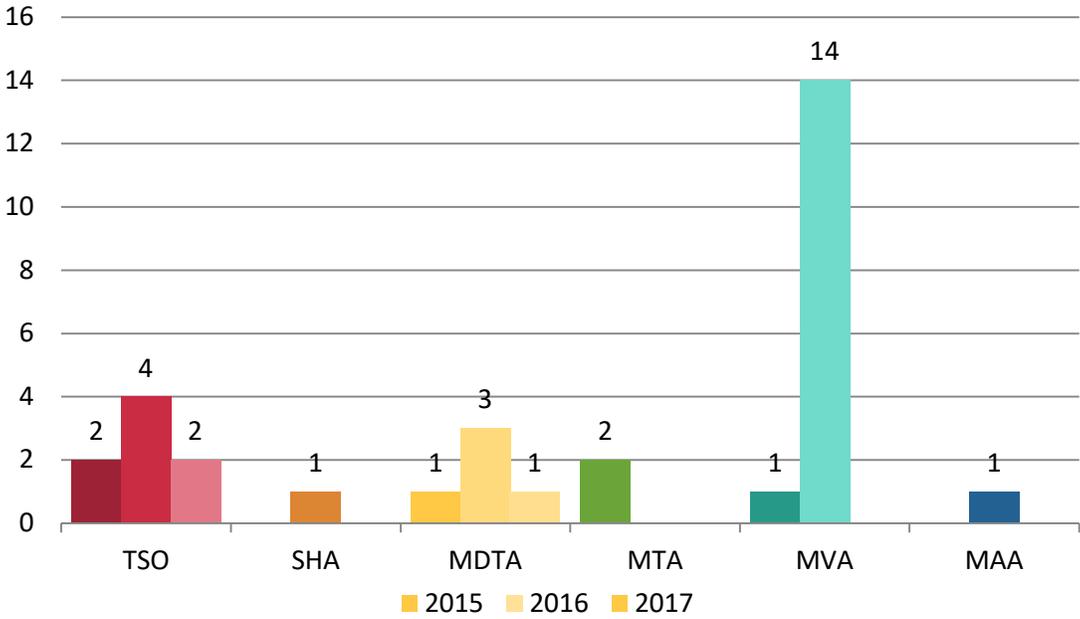
Starting in FY 2017, we are obtaining more statistical results data, based on standard survey questions utilized by all TBUs. The current percentages reflected in these charts establish a baseline for measuring future results.

# Be Fair and Reasonable to Our Partners

## PERFORMANCE MEASURE 7.5

### Level of Satisfaction of Our Business Partners

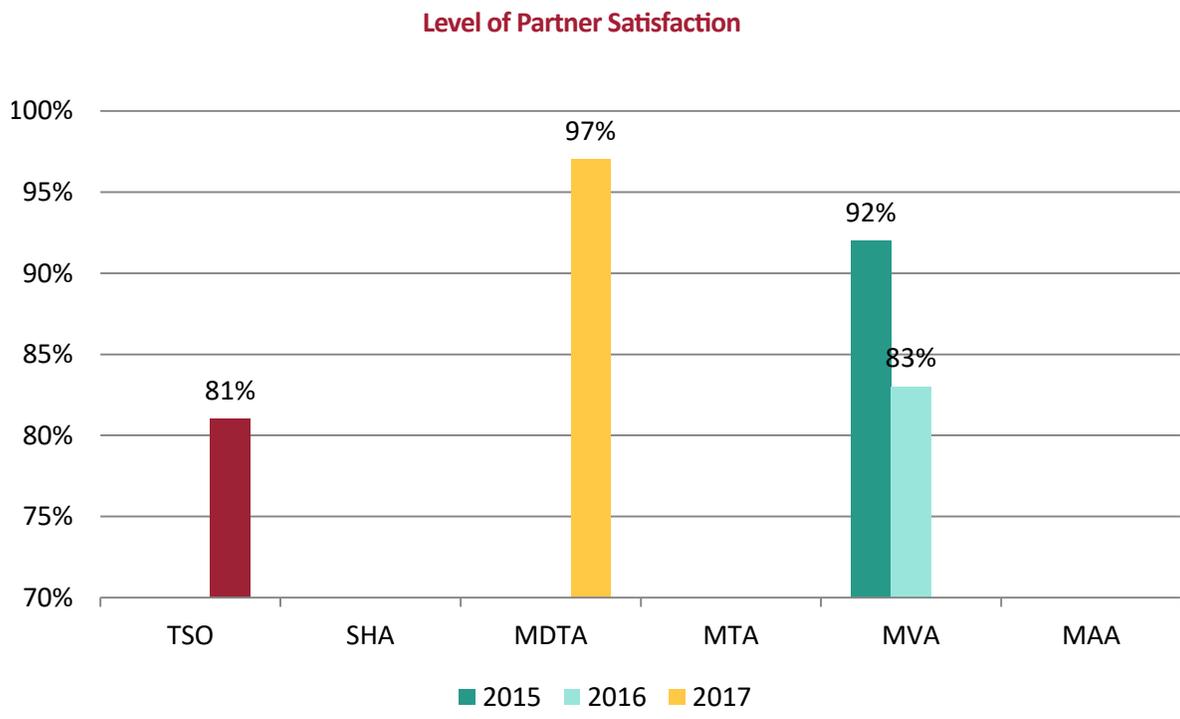
Outreach to Business Partners



# Be Fair and Reasonable to Our Partners



## PERFORMANCE MEASURE 7.5 Level of Satisfaction of Our Business Partners



# Be Fair and Reasonable to Our Partners

**TANGIBLE RESULT DRIVER:**

Wanda Dade  
State Highway Administration (SHA)

**PERFORMANCE MEASURE DRIVER:**

David Lynch  
Maryland Transit Administration (MTA)

**PURPOSE OF MEASURE:**

To assess the number and percent of invoices properly paid to MDOT's partners in compliance with state requirements so MDOT can be responsive to business partners' needs.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

MDOT Finance reports data monthly by TBUs.

**NATIONAL BENCHMARK:**

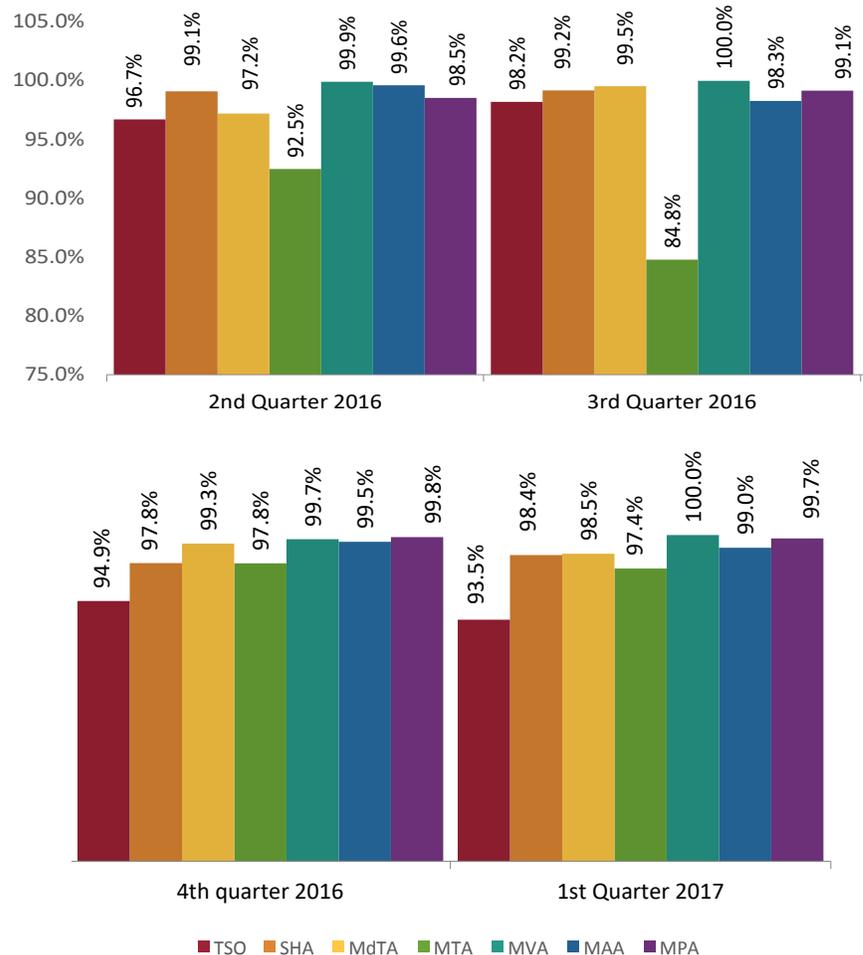
N/A

**PERFORMANCE MEASURE 7.6**

## Number and Percent of Invoices Properly Paid to Our Partners in Compliance with State Requirements

MDOT will treat contractors fairly by promptly paying invoices. Contractors should be able to trust MDOT's TBUs consistency of payment. With a goal of paying invoices within 30 calendar days 99 percent of the time. For FY 2016 MDOT achieved an on time payment rate of 98.62 percent. As of 4th quarter FY 2016 data from MVA now only consists of vendor invoices.

**Percent of Invoices Properly Paid Within 30 Days**

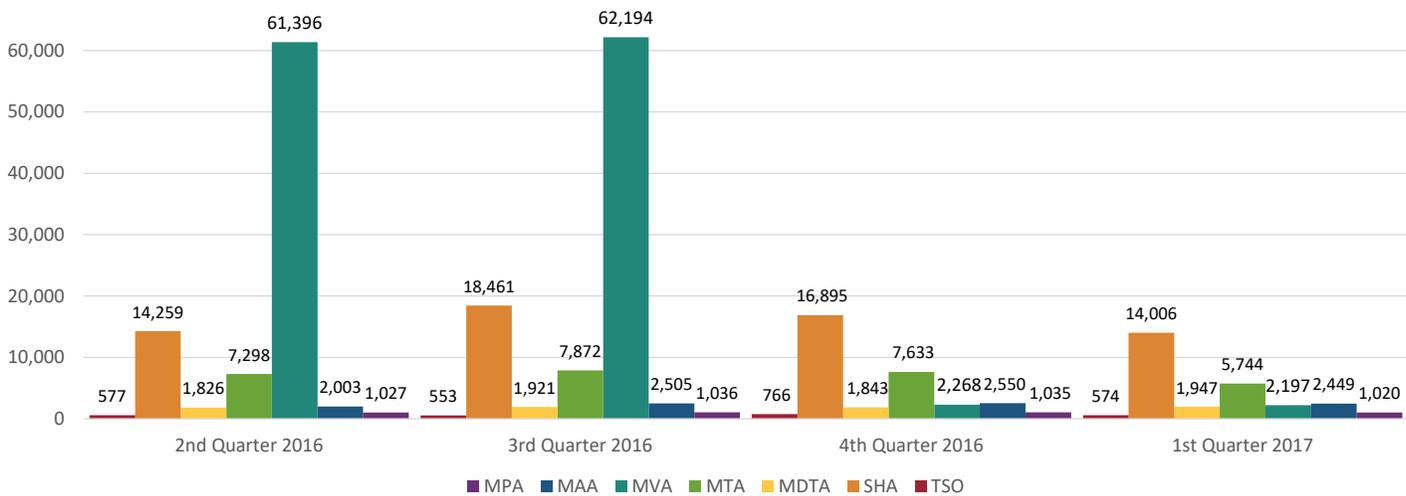


# Be Fair and Reasonable to Our Partners

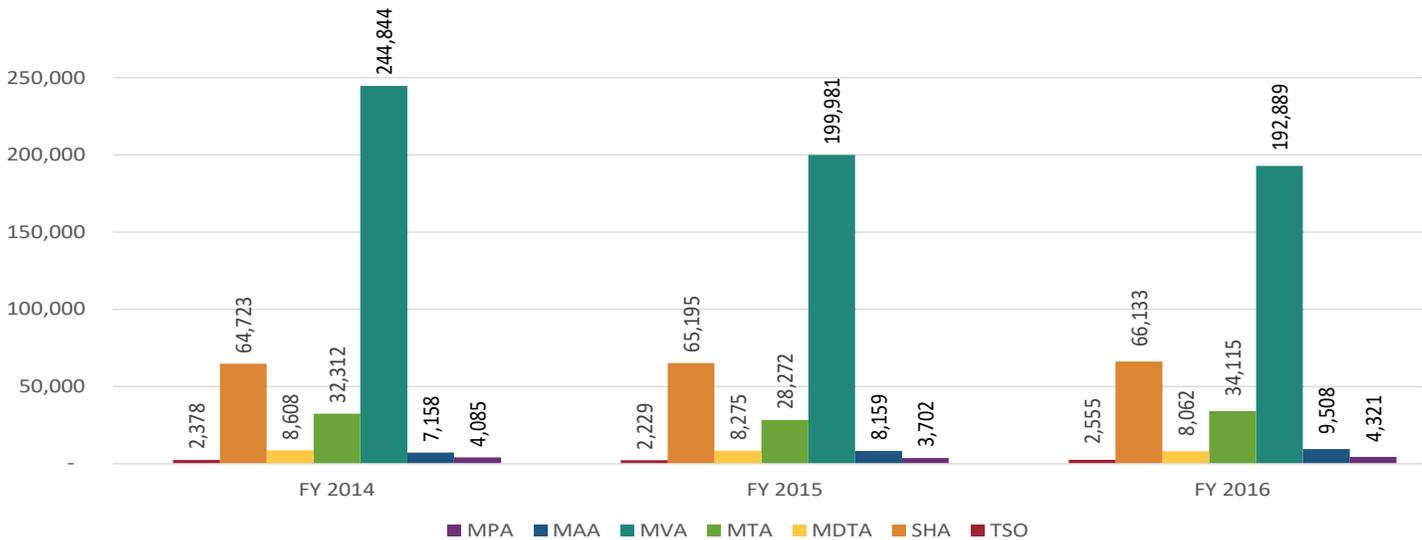
## PERFORMANCE MEASURE 7.6

### Number and Percent of Invoices Properly Paid to Our Partners in Compliance with State Requirements

Percent of Invoices Properly Paid - Total Number of Invoices 2nd, 3rd and 4th Quarters of FY 2016 and 1st Quarter FY 2017



Total Number of Invoices FY 2014, FY 2015 and FY 2016



# Be Fair and Reasonable to Our Partners

## TANGIBLE RESULT DRIVER:

Wanda Dade

State Highway Administration (SHA)

## PERFORMANCE MEASURE DRIVER:

Mike Zimmerman

The Secretary's Office (TSO)

## PURPOSE OF MEASURE:

To determine what percentage of protests are legitimate and how MDOT can reduce the number of non-legitimate protests to create better solicitations for business partners.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

MDOT TBU procurement departments report protest data to TSO Procurement on a monthly basis. Data is aggregated for reporting purposes.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 7.7

### Number of MDOT Procurement Protests Filed and Percent of Protests Upheld by the Board of Contract Appeals

Minimizing protests and understanding how to avoid non-legitimate protests will enable MDOT to develop better solicitations and foster better relationships with business partners. Tracking contract protests will allow MDOT to determine how many protests are being filed without warrant and how many are truly legitimate. This data can be used to create clearer, more concise solicitations for partners.

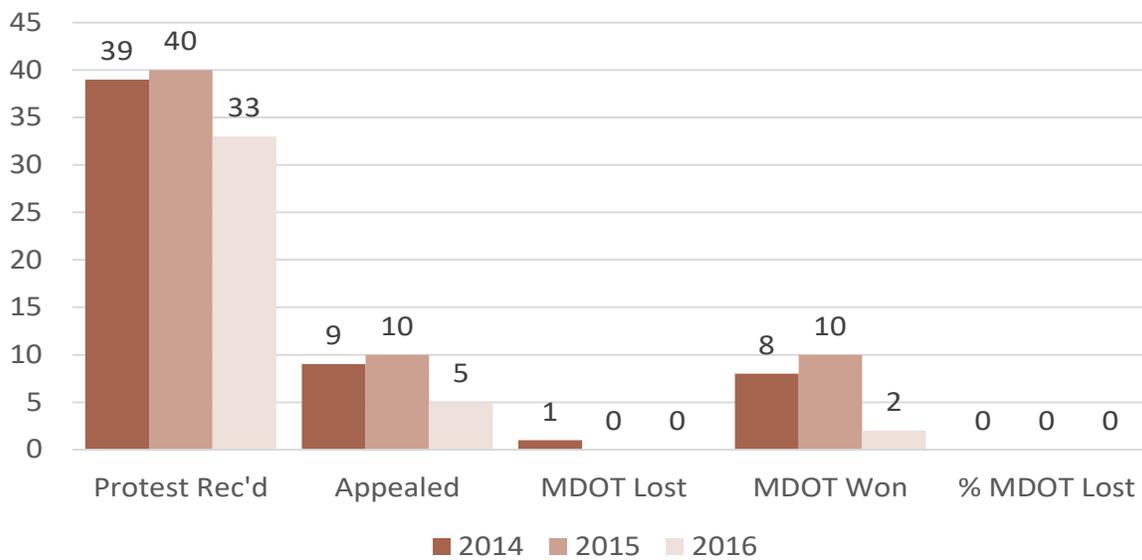
The protest process is important because it allows a company doing business with the State to have confidence in the State's solicitation process by understanding that an aggrieved entity has the ability to be heard.

The State, however, has experienced a number of frivolous protests over the years which delay the award of a procurement and hinders the ability of the State to move forward with the new contract. Often this is the result of an incumbent who is seeking to achieve a longer contract period and more revenue while the protest plays out. Tracking protests gives MDOT the tools necessary to mitigate protests, both frivolous and good, through proactive corrective/preventive action.

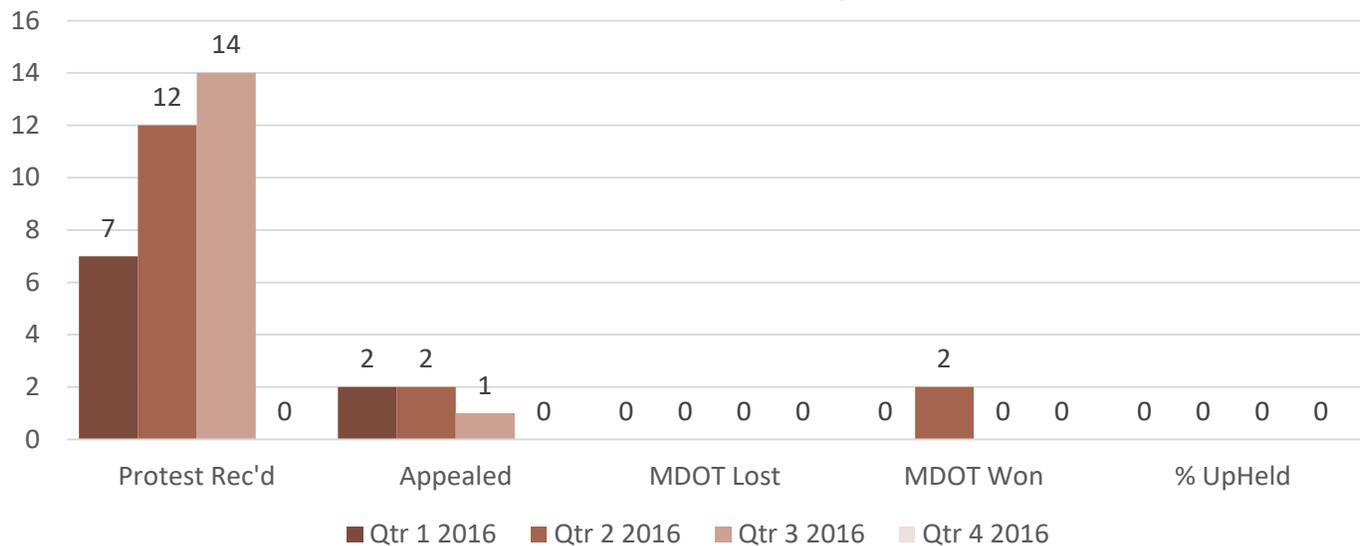
**PERFORMANCE MEASURE 7.7**

Number of MDOT Procurement Protests Filed and Percent of Protests Upheld by the Board of Contract Appeals

**Procurement Protests**



**Current Year Procurement Protests by Quarter**



TANGIBLE RESULT #8

## Be a Good Neighbor



As the owner of statewide transportation facilities, MDOT must work with our neighbors to find solutions that work for our customers and are sensitive to our neighbors.

**RESULT DRIVER:**

Simon Taylor  
*Maryland Aviation Administration (MAA)*

**TANGIBLE RESULT DRIVER:**

**Simon Taylor**  
*Maryland Aviation Administration (MAA)*

**PERFORMANCE MEASURE DRIVER:**

**Anthony Crawford**  
*State Highway Administration (SHA)*

**Dennis Simpson**  
*Maryland Transportation Authority (MDTA)*

**John Trueschler**  
*The Secretary's Office (TSO)*

**PURPOSE OF MEASURE:**

To ensure that MDOT maintains attractive and clean facilities with amenities benefiting their neighbors.

**FREQUENCY:**

Annually (in April)

**DATA COLLECTION METHODOLOGY:**

This will be assessed through an internal assessment and satisfaction survey developed by staff with neighbor input including cleanliness, appearance, operations, access, and safety at our facilities.

**NATIONAL BENCHMARK:**

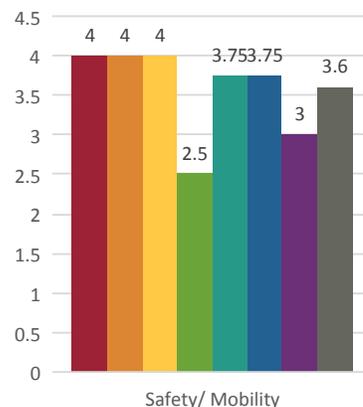
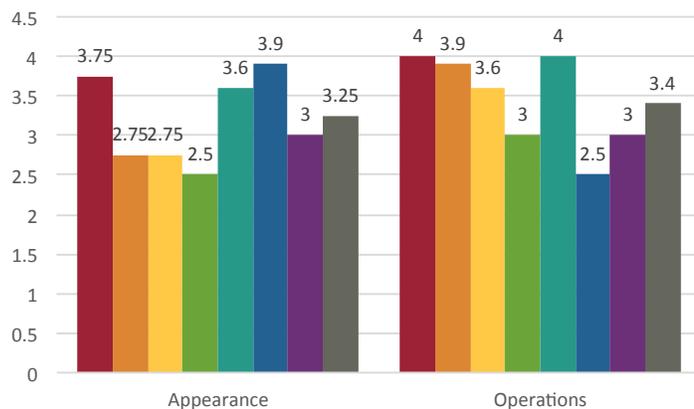
N/A

## PERFORMANCE MEASURE 8.1

### Percent of MDOT Facilities that Meet or Exceed Our Neighbor's Expectations

Attractive, efficient, and safe operations of MDOT facilities directly affect the surrounding neighbors and communities. MDOT values the relationships we have with neighbors and is committed to ensure the Department meets or exceed their expectations through an internal self-assessment and neighbor satisfaction survey. MDOT will be one of the first to engage our neighbors through staff outreach to better understand what impact facilities have on communities and how the Department can be a better neighbor.

**MDOT Facilities Assessment Ratings for Appearance, Operations, and Safety/Mobility**



■ TSO ■ SHA ■ MdTA ■ MTA ■ MVA ■ MAA ■ MPA ■ MDOT Wide

**TANGIBLE RESULT DRIVER:**

Simon Taylor  
Maryland Aviation Administration  
(MAA)

**PERFORMANCE MEASURE DRIVER:**

Michael Phennicie  
Maryland Aviation Administration  
(MAA)

Kathy Broadwater  
Maryland Port Administration (MPA)

**PURPOSE OF MEASURE:**

To expand and strengthen community outreach programs to continuously improve relationships with neighbors.

**FREQUENCY:**

Quarterly & Annually

**DATA COLLECTION METHODOLOGY:**

Data on the number of outreach activities is tallied and reported by each business unit on a quarterly basis. A team of data drivers from each unit meets quarterly with the PM Driver to review the submitted data and discuss types of activities and lessons learned.

Satisfaction surveys are tallied after each event and overall results reported annually.

**NATIONAL BENCHMARK:**

N/A

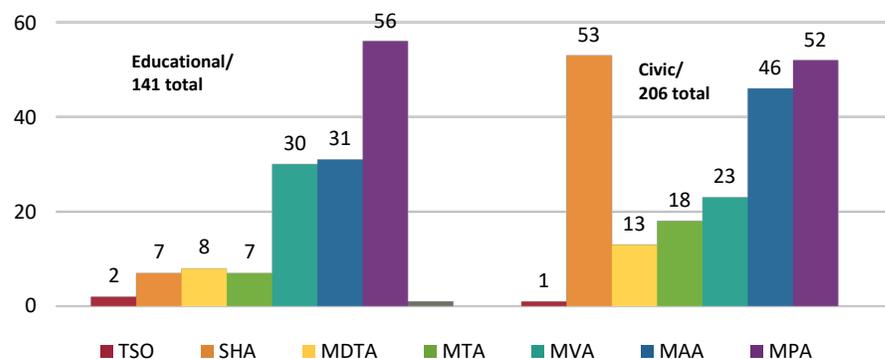
**PERFORMANCE MEASURE 8.2A AND B**

Level of Satisfaction with Educational/Civic Outreach Efforts with Our Neighbors: Number of Educational/Civic Outreach Efforts; Satisfaction with the Educational/Civic Outreach Efforts

Being a good neighbor requires opportunities for shared experiences and face-to-face interactions. Community outreach programs can vary greatly in topic, size, and scope, particularly across the various MDOT business units. These diverse activities establish good relationships, the sharing of information, and ultimately spread good will throughout the community.

By documenting the number, scope, and level of satisfaction with these activities, and sharing experiences with one another, each transportation business unit can expand and enhance its community outreach efforts while maintaining and strengthening relationships with those Marylanders who live in close proximity to our various transportation facilities.

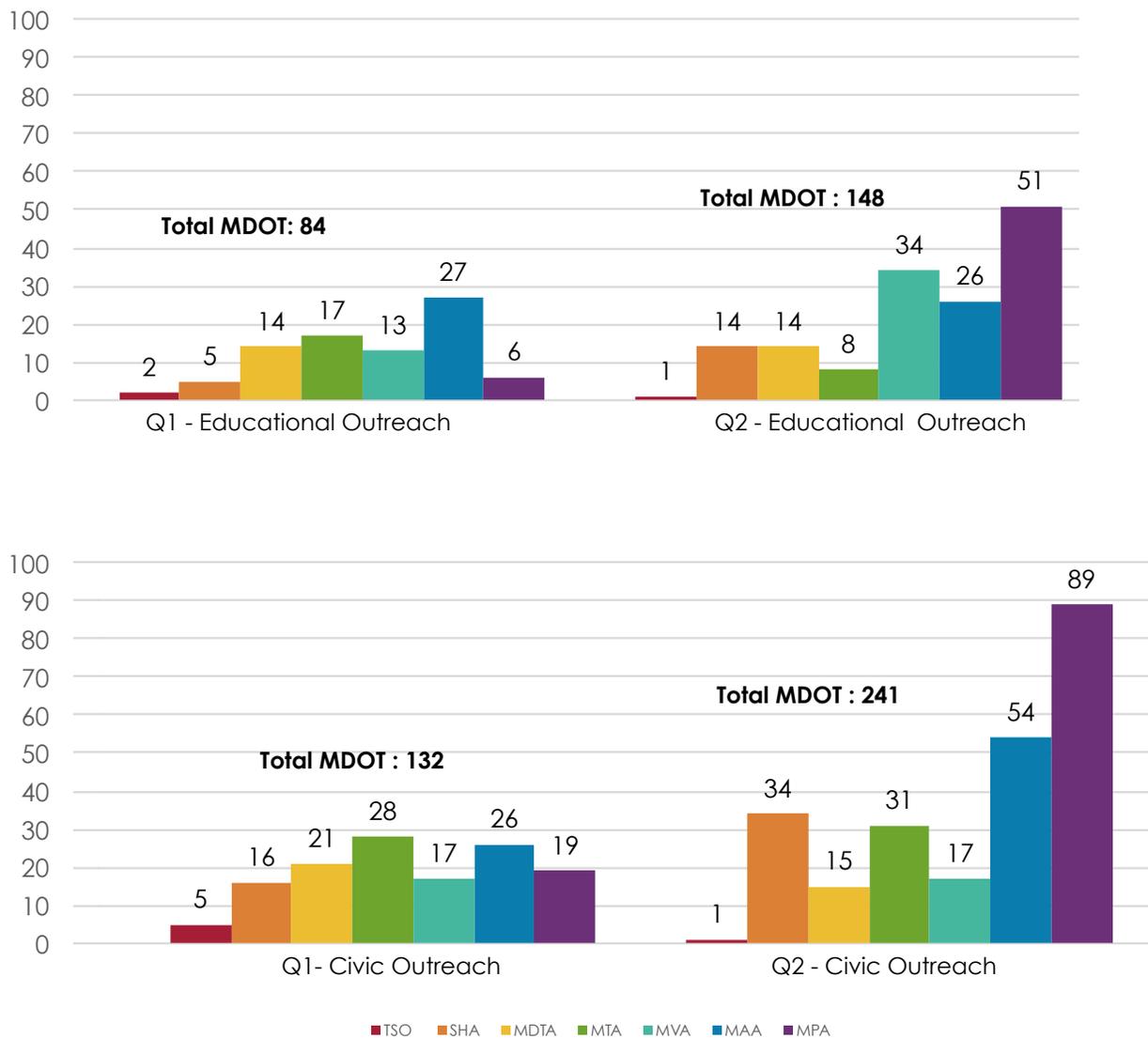
**Educational and Civic Outreach Efforts  
Calendar Year 2016 Third Quarter Outreach Efforts**



## PERFORMANCE MEASURE 8.2A AND B

Level of Satisfaction with Educational/ Civic Outreach Efforts with Our Neighbors: Number of Educational/Civic Outreach Efforts; Satisfaction with the Educational/Civic Outreach Efforts

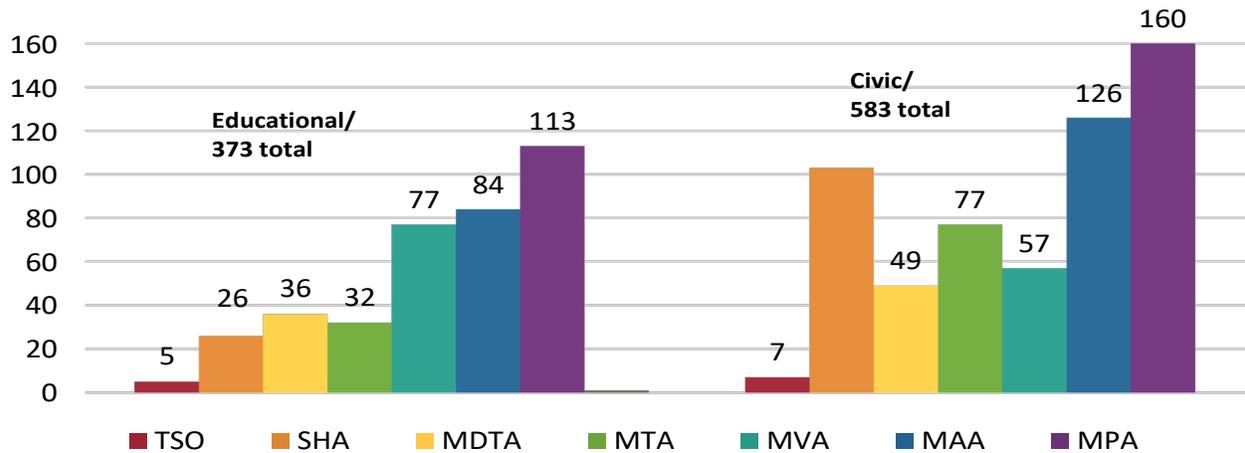
**Educational and Civic Outreach Efforts  
Calendar Year 2016 First and Second Quarter Outreach Efforts**



## PERFORMANCE MEASURE 8.2A AND B

Level of Satisfaction with Educational/ Civic Outreach Efforts with Our Neighbors: Number of Educational/Civic Outreach Efforts; Satisfaction with the Educational/Civic Outreach Efforts

**Educational and Civic Outreach Efforts**  
Calendar Year 2016 First, Second and Third Quarter Year to Date Outreach Efforts



# Be a Good Neighbor



**TANGIBLE RESULT DRIVER:**

Simon Taylor  
Maryland Aviation Administration  
(MAA)

**PERFORMANCE MEASURE DRIVER:**

Jim Hoover  
Maryland Transit Administration (MTA)

**PURPOSE OF MEASURE:**

To assess the percent of facilities that meet or exceed ADA accessibility mandates and to ensure access to our facilities by all.

**FREQUENCY:**

Annually (in April)

**DATA COLLECTION METHODOLOGY:**

Data on the number of owned and occupied facilities along with the number of facilities that are ADA compliant are tallied and reported by each business unit on an annual basis.

**NATIONAL BENCHMARK:**

N/A

## PERFORMANCE MEASURE 8.3

### Percent of MDOT Facilities that are ADA Compliant

Compiling and charting data for seven business units on the percent of facilities/buildings that are owned and occupied that meet or exceed Americans With Disabilities Act (ADA) mandates is essential to MDOT's customers and more importantly to MDOT's neighbors to ensure everyone can visit MDOT facilities. Data collected will help to inform each business unit across MDOT on how and where to focus resources to meet ADA compliance and make facilities more accommodating to all of customers and neighbors who visit facilities.

A. Percent of owned and occupied facilities/buildings that are ADA Compliant:

Each Tangible Business Unit is rated individually:

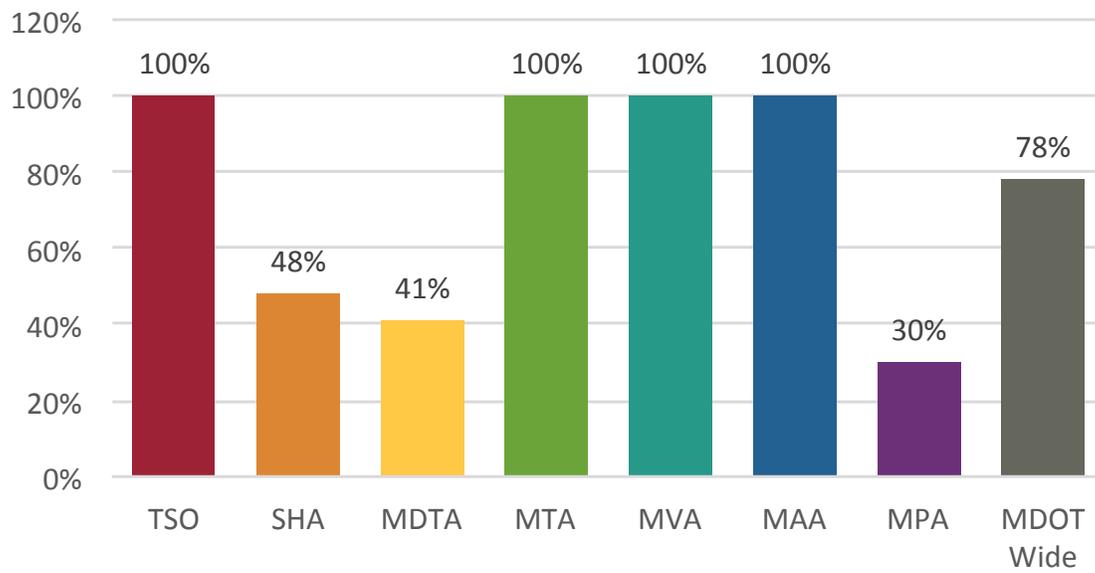
1. TSO – 01 owned and occupied; 01 compliant = (100 percent)
2. SHA – 56 owned and occupied; 27 compliant = (48 percent)
3. MDTA – 27 owned and occupied; 11 compliant = (41 percent)
4. MTA – 16 owned and occupied; 16 compliant = (100 percent)
5. MVA – 33 owned and occupied; 33 compliant = (100 percent)
6. MAA – 61 owned and occupied; 61 compliant = (100 percent)
7. MPA – 05 owned and occupied; 03 compliant = (60 percent)
8. MDOT WIDE – 78 percent compliant

MDOT owned properties include several different elements that should meet the ADA requirements. The first report is related to buildings only. Additional elements such as bus stops, rail platforms, parking lots, rest areas, bike/walking paths, and many other elements will be added to the performance measure in future reports.

**PERFORMANCE MEASURE 8.3**

Percent of MDOT Facilities that are ADA Compliant

Percent of Facilities That Are ADA Compliant



TANGIBLE RESULT #9

## Be a Good Steward of Our Environment



MDOT will be accountable to our customers for the wise use of limited resources and our impacts on the environment when designing, building, operating and maintaining a transportation system.

**RESULT DRIVER:**

Dorothy Morrison

*The Secretary's Office (TSO)*

# Be a Good Steward of Our Environment

**TANGIBLE RESULT DRIVER:**

Dorothy Morrison  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Sonal Ram  
*State Highway Administration (SHA)*

**PURPOSE OF MEASURE:**

To evaluate the health of the Chesapeake Bay by measuring how well MDOT is achieving compliance with impervious surface restoration as required by the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer system (MS4) permit.

**FREQUENCY:**

Annually (in October)

**DATA COLLECTION METHODOLOGY:**

MDOT is tracking all Bay restoration projects and impervious surface treatment associated with those projects to determine overall progress toward the 20 percent goal during their five-year permit term.

**NATIONAL BENCHMARK:**

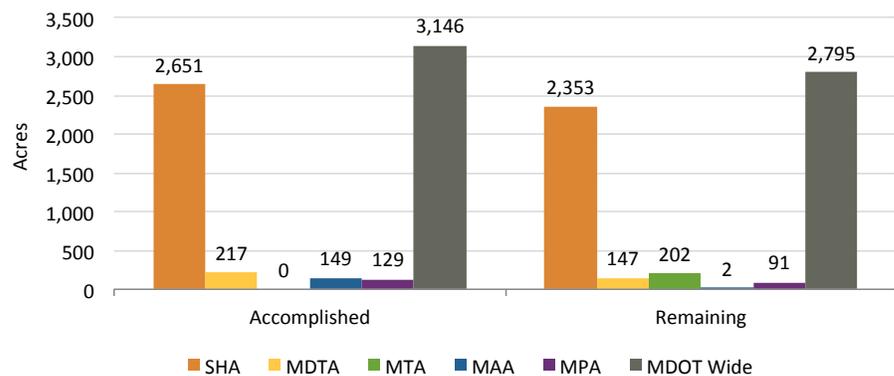
N/A

**PERFORMANCE MEASURE 9.1**

**Water Quality Treatment to Protect and Restore the Chesapeake Bay**

Maryland's environmental and economic success is tied to the health of the Chesapeake Bay. The fastest growing source of Bay pollution is stormwater runoff, intensified by impervious surfaces like pavement, roads, rooftops and parking lots. Prior to the 1980s, the majority of infrastructure development in Maryland was built without stormwater controls. Under the federal and state mandated stormwater permit, acreage equivalent to 20 percent of MDOT's impervious surface that has not been previously treated by stormwater management controls will be treated through a variety of restoration efforts. MDOT will track incremental progress towards the 20 percent goal to be achieved within the five-year permit term to ensure progress towards a cleaner Bay and healthier State of Maryland.

**Impervious Restoration**



# Be a Good Steward of Our Environment

**TANGIBLE RESULT DRIVER:**  
Dorothy Morrison  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**  
Paul Truntich Jr.  
*Maryland Transportation Authority (MDTA)*

**PURPOSE OF MEASURE:**  
To track overall fuel economy of fleet vehicles and ensure better air quality through the use of state vehicles. It is important to track miles per gallon in a meaningful manner to ensure that State vehicles are fuel efficient and not detrimental to our State air quality. Fuel economy data will be used to evaluate driving patterns as well as when the procurement of new fleet vehicles is considered.

**FREQUENCY:**  
Annually (in April)

**DATA COLLECTION METHODOLOGY:**  
Fleet MPG data will be obtained from the State of Maryland's fuel service vendor.

**NATIONAL BENCHMARK:**  
N/A

## **PERFORMANCE MEASURE 9.2A** Fuel Efficiency: Miles Per Gallon

Currently, there is no uniform approach to evaluating miles per gallon (MPG) of MDOT fleet vehicles. Mansfield Oil Company (statewide fueling vendor) has been contacted regarding developing a means of tracking this data. While reducing fuel consumption through improved fleet fuel economy is a benefit to tracking this data (cost savings and resource conservation), it does not come without significant limitations. Incorrect vehicle mileage entry at the time of vehicle refueling will skew all resulting MPG data for the vehicle in question. Additionally, police vehicles, snow fighting equipment, courtesy patrol vehicles and maintenance of traffic equipment, depending on their situation, can spend significant amounts of time idling which also taints MPG data. Finally, traditional heavy equipment does not always refuel at a dispenser, but are refueled by intermediate methods, so in these instances Mansfield Oil would have no means of tracking and recording MPG. While monitoring fuel efficiency via tracking MPG data appears to be a sound approach, inclusion of all fleet vehicles in such a tracking regime is not practical at this time. Therefore, at the outset of this performance measure, only light-duty vehicles, or a segment thereof, will be measured. As light-duty vehicles comprise approximately 48% of MDOT's total fleet, this data should be beneficial in evaluating driving patterns as well as developing measures to increase overall fuel mileage in this segment of MDOT's fleet.



# Be a Good Steward of Our Environment

**TANGIBLE RESULT DRIVER:**

Dorothy Morrison  
*The Secretary's Office (TSO)*

**PERFORMANCE MEASURE DRIVER:**

Paul Truntich Jr.  
*Maryland Transportation Authority*

**PURPOSE OF MEASURE:**

To track overall fuel consumption of fleet vehicles as well as fixed-equipment in an effort to use less of our resources with State vehicles and equipment. Consumption patterns will be evaluated for improving fuel efficiency and shifting towards use of renewable fuels.

**FREQUENCY:**

Annually (in October)

**DATA COLLECTION METHODOLOGY:**

Fleet vehicle data will be obtained from the State of Maryland's fuel service vendor. Fixed-equipment data will be supplied from Fleet and Facility Managers at the TBUs.

**NATIONAL BENCHMARK:**

N/A

**PERFORMANCE MEASURE 9.2B**

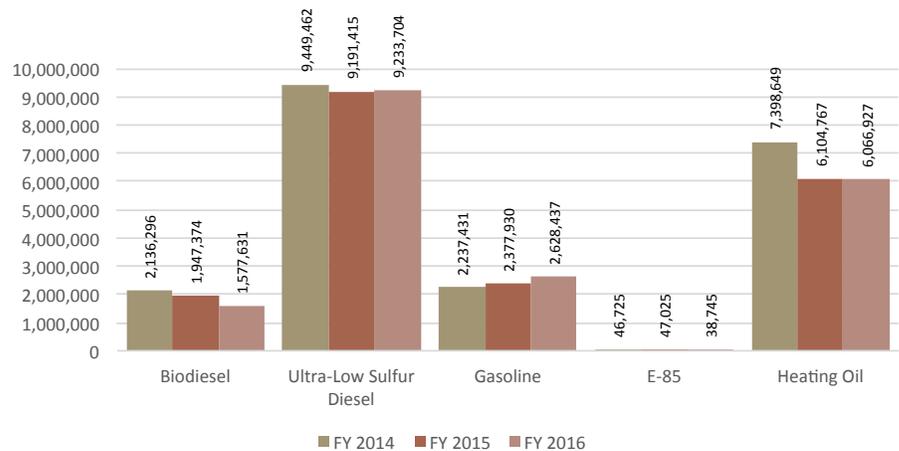
**Fuel Efficiency: Total Gallons Consumed**

Analyzing fuel consumption patterns enables Fleet and Facility Managers to budget more effectively and use resources more efficiently. This data also will be beneficial as fleet acquisition purchases are considered and facility heating upgrades are considered. Additionally, identifying opportunities for reducing fuel consumption not only benefits the environment via resource conservation and reduced emissions, but also results in true cost-savings through reduced fuel costs.

Fiscal Years 2014 through 2016 indicate relatively constant ultra-low sulfur diesel consumption with the MTA contributing to the majority of fuel consumed via its bus fleet and MARC trains.

Heating oil consumption experienced a significant reduction during the reporting period. While consumption is weather influenced, the MPA converted from oil-fired to natural gas HVAC systems at several facilities which contributed to the reduction. Furthermore, MDTA and MTA have similar construction projects either fully underway or within the design process. Biodiesel and gasoline experienced nearly identical reductions and increases, respectively. This is attributed to SHA's transitioning of its light and medium-duty fleet from diesel to gasoline for vehicle maintenance issues.

**Total Gallons of Fuel Consumed**



# Be a Good Steward of Our Environment

## TANGIBLE RESULT DRIVER:

Dorothy Morrison

*The Secretary's Office (TSO)*

## PERFORMANCE MEASURE DRIVER:

Hargurpreet Singh, P.E.

*Motor Vehicle Administration (MVA)*

## PURPOSE OF MEASURE:

To track the percentage of waste diverted from the landfill or incineration through recycling to minimize negative impacts on the environment.

## FREQUENCY:

Annually (in April)

## DATA COLLECTION METHODOLOGY:

Maryland Department of the Environment All State Agency Recycling (All StAR) reporting.

## NATIONAL BENCHMARK:

Virginia – 35 percent by 2010

Washington DC – 45 percent

Florida – 75 percent by 2020  
(recycle rate in 2014 was 50 percent)

California – 75 percent by 2020  
(4 cities achieved highest reporting recycling rates in 2014 with 74.85 percent average)

## PERFORMANCE MEASURE 9.3

### Percent of Maryland Recycling Act Materials Recycled

Activities and operations within MDOT are subject to various Federal, State, and Local environmental rules and regulations. Compliance to these various environmental rules and regulations helps minimize negative impact on the environment.

In 1988, the Maryland Recycling Act (MRA) authorized Maryland Department of the Environment to reduce the disposal of solid waste in Maryland through management, education and regulation.

Recycling Goals were set at:

- 20 percent - For jurisdictions with populations greater than 150,000; and
- 15 percent - For jurisdictions with populations less than 150,000;
- But in no case will the recycling rate be less than 10 percent.

In 2012, Maryland State Legislature set new Statewide Recycling Goals of:

- 30 percent in 2014
- 40 percent in 2015

MDOT recycles and cares about recycling because of the following benefits:

- Conserves Resources
  - When we recycle, used materials are converted into new products, reducing the need to consume natural resources.
- Saves Energy
  - Using recycled materials in the manufacturing process uses considerably less energy than that required for producing new products from raw materials.
- Helps Protect the Environment
  - Recycling reduces the need for extracting, refining and processing raw materials all of which create substantial air and water pollution.
  - As recycling saves energy, it also reduces greenhouse gas emissions, which helps to tackle climate change.
- Reduces Landfill

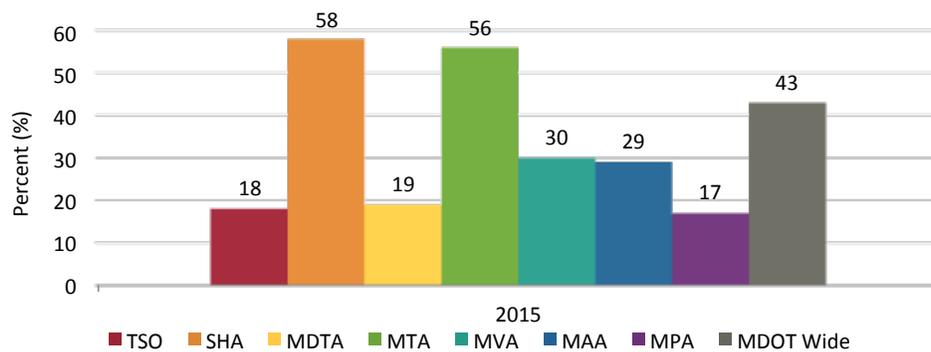
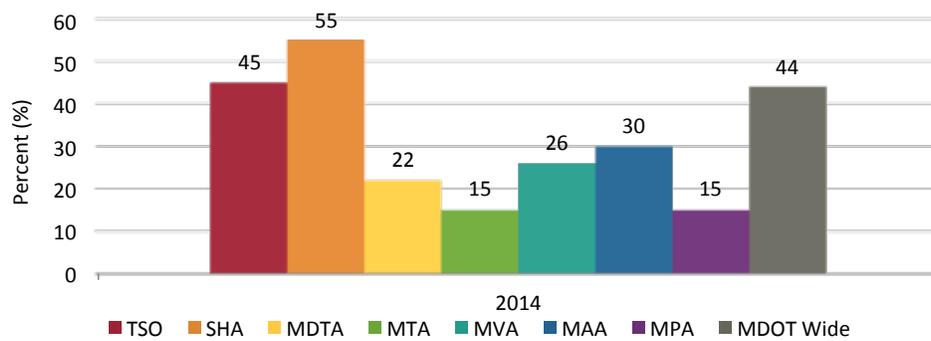
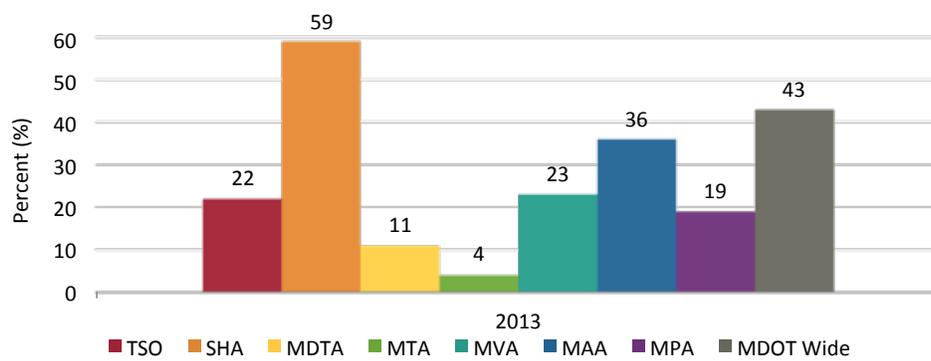
Recycling ensures recyclable materials are reprocessed into new products, and as a result the amount of rubbish sent to landfill sites reduces.

# Be a Good Steward of Our Environment

## PERFORMANCE MEASURE 9.3

### Percent of Maryland Recycling Act Materials Recycled

Percent Waste Recycled by Business Unit



# Be a Good Steward of Our Environment

## TANGIBLE RESULT DRIVER:

Dorothy Morrison  
*The Secretary's Office (TSO)*

## PERFORMANCE MEASURE DRIVER:

Barbara McMahon  
*Maryland Port Administration (MPA)*

## PURPOSE OF MEASURE:

To reduce TBU impact on solid waste landfill through recycling/reuse of steel, asphalt and concrete.

## FREQUENCY:

Annually (in April)

## DATA COLLECTION METHODOLOGY:

The data collection methodology will include disposal weights (via bill of lading) by Business Unit's Facility Maintenance and Engineering Departments. The data are and/or should be reported on the annual Non-Maryland Recycling Act Report.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 9.4

### Recycled/Reused Materials from Maintenance Activities and Construction/Demolition Projects

MDOT is committed to reducing its impact on solid waste, non-hazardous landfills, potentially resulting in reduction of the number of waste disposal facilities in Maryland as stated in the Maryland Department of the Environment's "Zero Waste" Action Plan. If not already in place, the TBUs will establish policy and procedures to recycle and/or reuse their solid waste: steel, asphalt and concrete. These materials are generated during maintenance/repair activities and capital construction/demolition projects. In both instances of generation of these materials, the policy/procedure should require the TBUs to collect, weigh and recycle; this will generally result in a payment by a recycler to the TBU, in particular steel. The benefits of recycling/reusing these materials include saving energy and natural resources, preserving the capacity of landfills, reducing waste disposal costs, generating revenue for materials and reducing pollutants generated by landfill process.

There are several possible barriers to success, including the following:

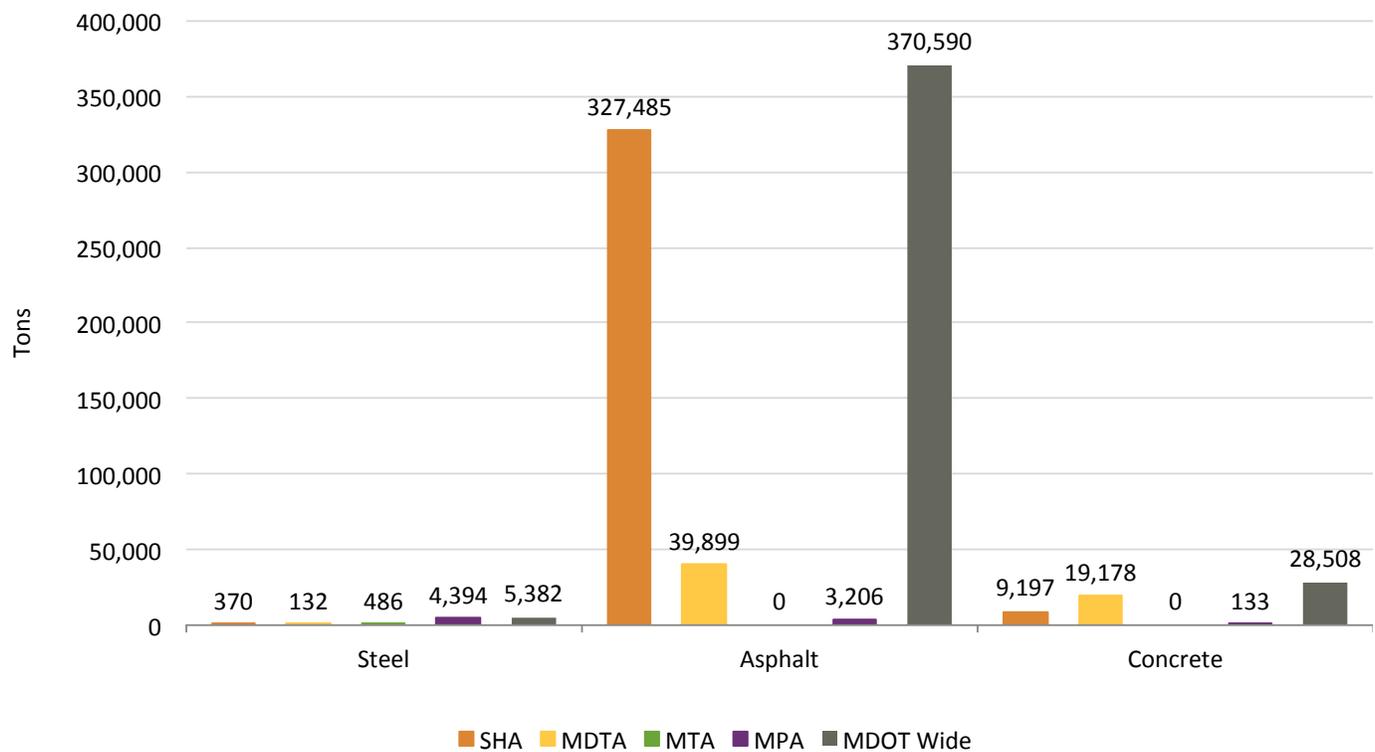
- Recognizing that there will be variability among reporting periods and TBUs. Some may have more maintenance and construction/demolition activities than others.
- Establishing data collection mechanisms in each TBU.
- Developing contractual language that requires contractors to segregate, collect, weigh and recycle these materials.
- Ensuring commitment to this goal and its positive impact on the environment, including training employees and contractors.

# Be a Good Steward of Our Environment

## PERFORMANCE MEASURE 9.4

Recycled/Reused Materials from Maintenance Activities and Construction/ Demolition Projects

Percent Waste Recycled by Business Unit



# Be a Good Steward of Our Environment

## TANGIBLE RESULT DRIVER:

Dorothy Morrison

*The Secretary's Office (TSO)*

## PERFORMANCE MEASURE DRIVER:

Robin Bowie

*Maryland Aviation Administration (MAA)*

## PURPOSE OF MEASURE:

To provide consistent monitoring of TBU compliance with environmental requirements and to ensure MDOT meets Federal, state and local environmental regulations.

## FREQUENCY:

Annually (in October)

## DATA COLLECTION METHODOLOGY:

Enterprise Environmental Information Management System.

## NATIONAL BENCHMARK:

International Organization for Standardization (ISO) 14001 ISO has a requirement to "evaluate compliance." The standard does not dictate the frequency but states that an organization's "process needs to determine how often you will check each level of compliance."

## PERFORMANCE MEASURE 9.5

### Compliance with Environmental Requirements

MDOT activities and operations are subject to various Federal, state, and local environmental regulations. Adherence to the environmental requirements minimizes the potential for activities and operations of transportation facilities to adversely impact the environment and the surrounding communities. Compliance with the environmental requirements that govern MDOT activities and operations is key to being a good steward of the environment. Conducting audits is an effective mechanism for monitoring compliance with environmental requirements. Tracking audits and reporting audit results further demonstrates MDOT's commitment of environmental stewardship, which benefits not only the natural environment but also the citizens of Maryland.

MDOT participated in third party audits as part of an agreement with Environmental Protection Agency (EPA) Region 3. As noted in the data, the frequency of audits conducted since the EPA third party audits have varied for each TBU. This initial round of information collection and review also revealed a difference in the type (internal vs. external) of audits that have been conducted by each TBU. Several TBUs are in the process of formalizing audit processes and/or procuring audit contracts. Strategies put into place to bring the TBU's into a more consistent reporting method include standardizing audit activities across MDOT, developing a comprehensive environmental compliance audit checklist for use during audits and developing an enterprise environmental management system (EEIMS) module for reporting audit information. On an annual basis, MDOT will share audit results.

Be a Good Steward of  
Our Environment



# Be a Good Steward of Our Environment

## TANGIBLE RESULT DRIVER:

Dorothy Morrison  
*The Secretary's Office (TSO)*

## PERFORMANCE MEASURE DRIVER:

Robert Frazier  
*Maryland Transit Administration (MTA)*

## PURPOSE OF MEASURE:

To make improvements beyond the environmental permit requirements (air quality and storm water Industrial Discharge permits 12-SW) enhances the positive environmental impacts on land and water resources of MDOT's surrounding communities and neighborhoods.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Quarterly visual monitoring. Age and fuel type of air emissions sources.

## NATIONAL BENCHMARK:

Best for the World Impact Assessment, a comprehensive assessment of an organization's impact on its workers, community, and the environment.

## PERFORMANCE MEASURE 9.6

### Environmental Impacts and Community Enhancements

The presence of MDOT facilities in communities throughout Maryland has an impact on the environment. MDOT industrial facilities operating under a 12-SW storm water discharge permit perform quarterly visual monitoring of storm water quality leaving those properties. Eight parameters are viewed and recorded per quarter per facility outfall. Variations from the parameters can impact the watersheds in which the permit is located. Data from the monitoring indicates facilities requiring improvements to best management practices such as increased lot sweeping and installation of bio-swales improving water quality. Sweeping is being done at four MDOT Business Units and in the process of being implemented at a fifth Business Unit.

MDOT permitted air sources operate in communities within permit parameters. Air sources include paint booths, boilers, generators and petroleum storage tanks. This equipment varies widely in age and operating efficiencies. Identifying and replacing/retrofitting older, less efficient pieces of equipment with new and more efficient pieces of equipment will have a positive effect on the community.

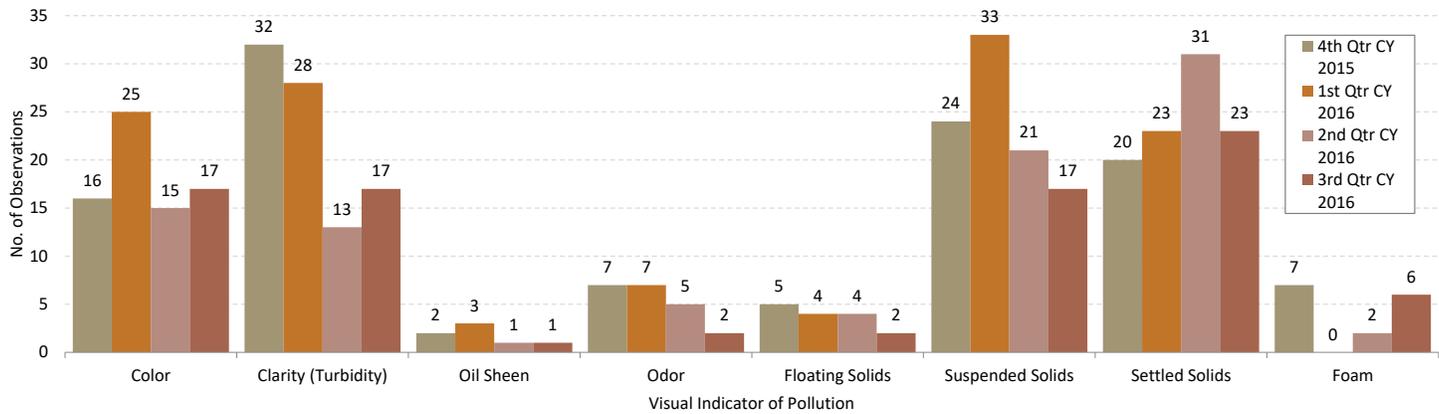


# Be a Good Steward of Our Environment

## PERFORMANCE MEASURE 9.6

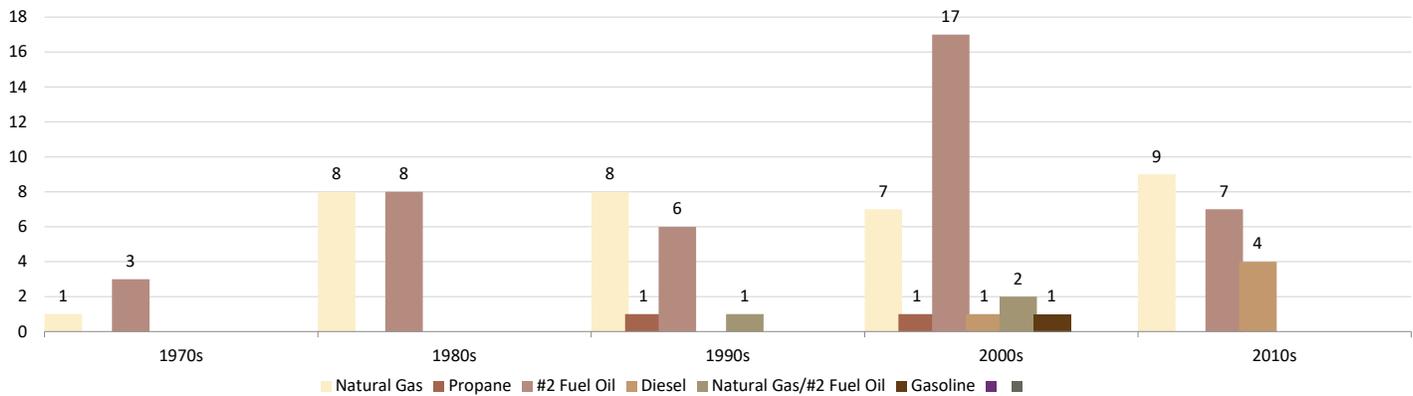
### Environmental Impacts and Community Enhancements

#### Environmental Impacts and Community Enhancements: Stormwater



The Sweeping Program has resulted in an improvement in Clarity (Turbidity) and a reduction in all Solids in samples collected at MDOT facilities.

#### Environmental Impacts and Community Enhancements: Air



# Be a Good Steward of Our Environment

## TANGIBLE RESULT DRIVER:

Dorothy Morrison

*The Secretary's Office (TSO)*

## PERFORMANCE MEASURE DRIVER:

Laura Rogers

*The Secretary's Office (TSO)*

## PURPOSE OF MEASURE:

To reduce our consumption of energy through efficiency measures and use of renewable energy sources.

## FREQUENCY:

Semi-Annually (in April and October)

## DATA COLLECTION METHODOLOGY:

Data for all of MDOT's electric, natural gas, propane, oil #2, steam, and chilled water usage collected on EnergyCAP Online will be evaluated. Data for energy efficiency measures and renewable energy sources utilized by MDOT will be collected from the TBU Energy Manager. Emissions calculated based on the amount and type of energy used.

## NATIONAL BENCHMARK:

Renewable Energy:

Federal agencies - 30% by 2015

Delaware - 25% by 2025, solar 3.5% by 2025

West Virginia - 25% by 2025

New Jersey - 22.5% by 2021

Washington DC - 20% by 2020, 50% by 2032, solar 2.5% by 2023

## PERFORMANCE MEASURE 9.7

### Energy Consumption

Reducing our energy consumption through energy efficiency and use of renewable energy sources saves Maryland money and reduces greenhouse gas (GHG) emissions. Measuring and analyzing energy consumption enables Energy Managers to budget more effectively and use resources more efficiently. MDOT uses approximately 1,600,000-1,900,000 million British Thermal Units (MMBtu) of energy, spends approximately \$30,000,000-\$47,000,000, and generates approximately 270,000 metric tons of GHG annually.

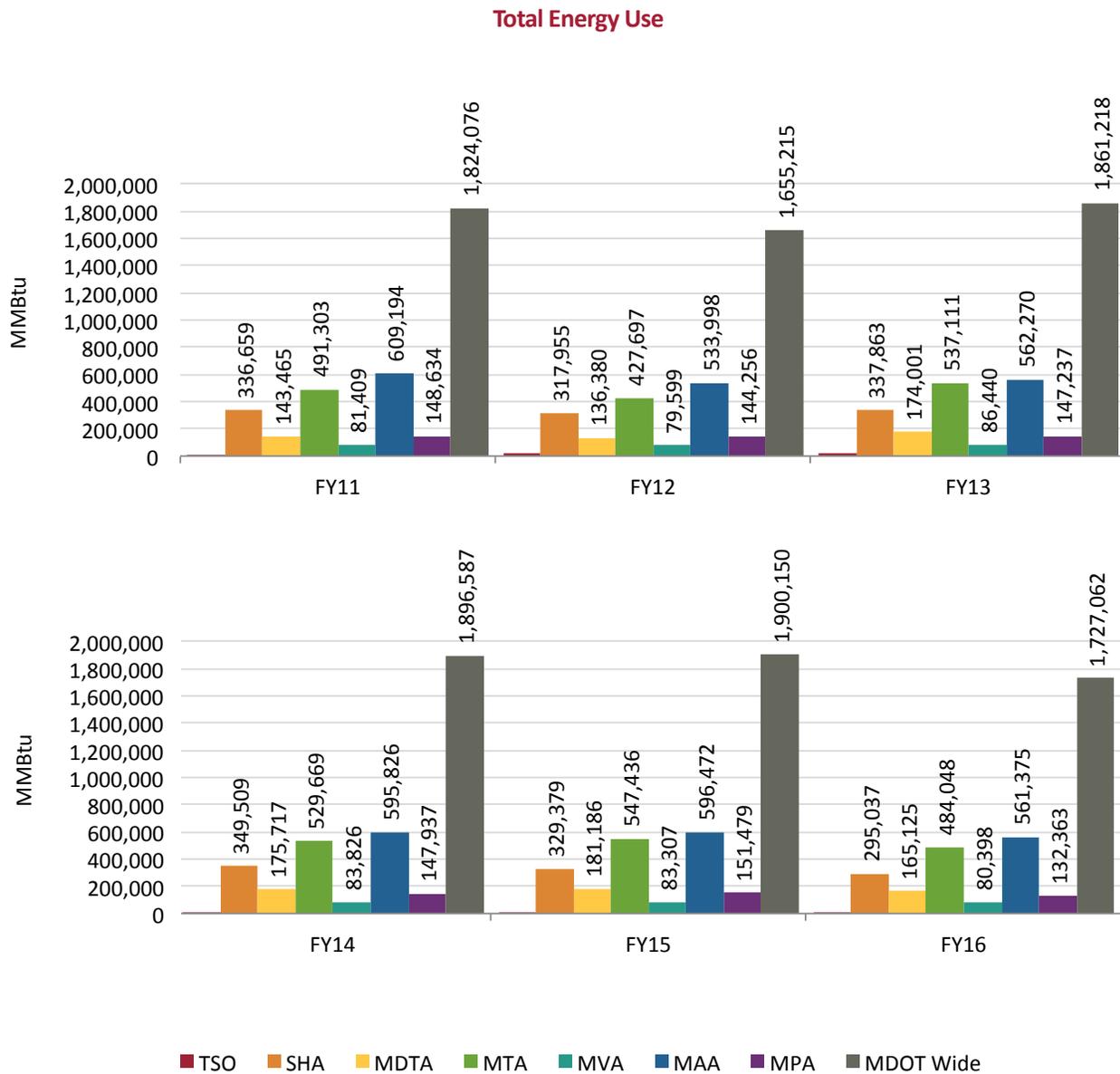
MDOT's buildings consume the majority of energy. Many energy efficiency measures have already been implemented at MDOT, including lighting retrofits, replacement of old equipment with energy efficient equipment, and installation of building automation systems. These measures have attained high rates of return on investment.

MDOT owns and manages considerable real estate, a portion of which could support renewable energy systems without hindering its core functionality. By increasing installation and use of renewable energy, MDOT can generate revenue, save taxpayers money, and reduce harmful air emissions while also helping Maryland meet its clean energy and GHG reduction goals. As of August 2016, MDOT has installed solar, wind, and geothermal energy systems at MAA, MDTA, MPA, MTA, and SHA facilities. These systems generate approximately 2,303,400 kilowatt hours/year, saving about \$265,000 and 1,619 metric tons of carbon dioxide annually.



# Be a Good Steward of Our Environment

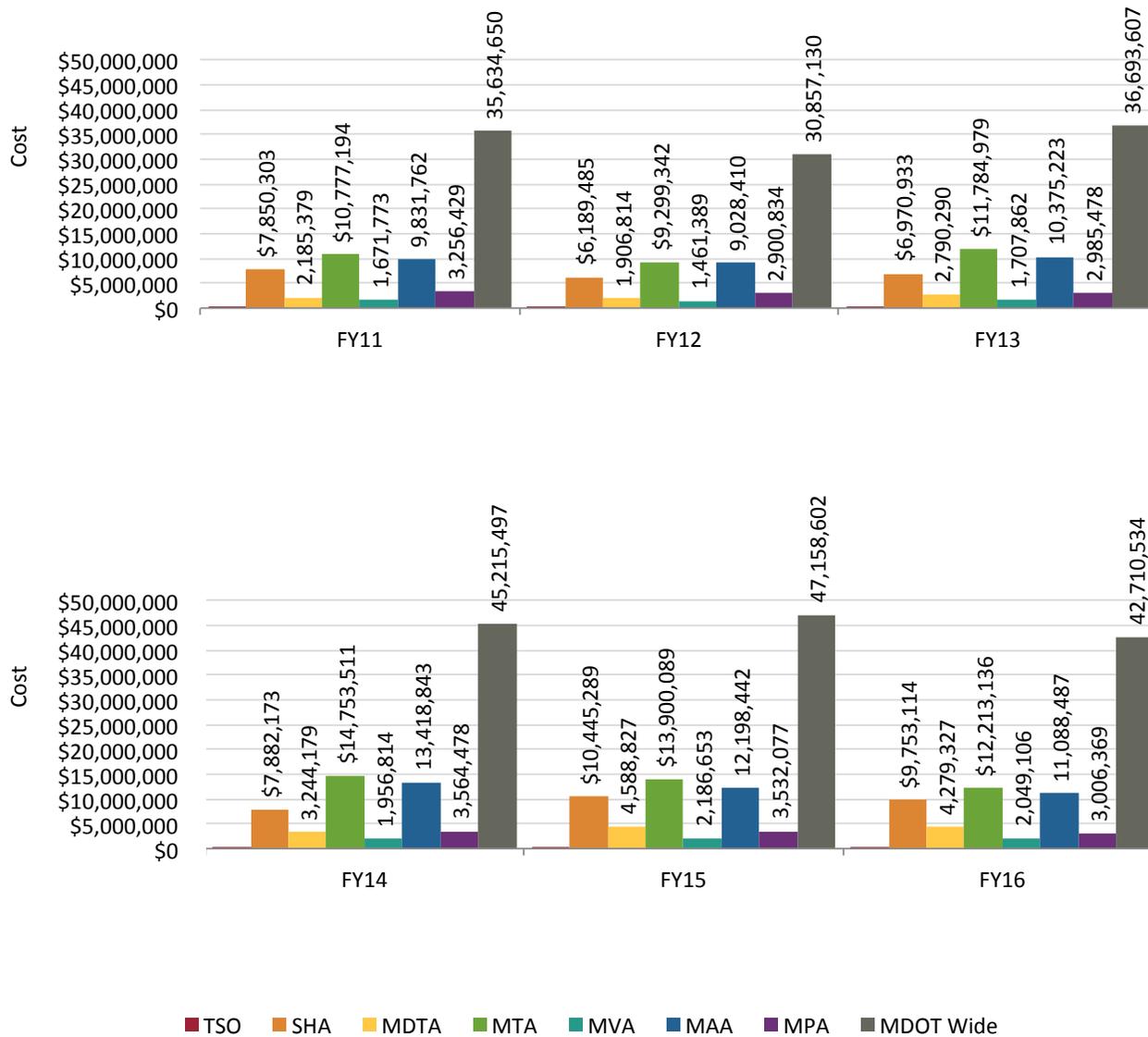
## PERFORMANCE MEASURE 9.7 Energy Consumption



# Be a Good Steward of Our Environment

## PERFORMANCE MEASURE 9.7 Energy Consumption

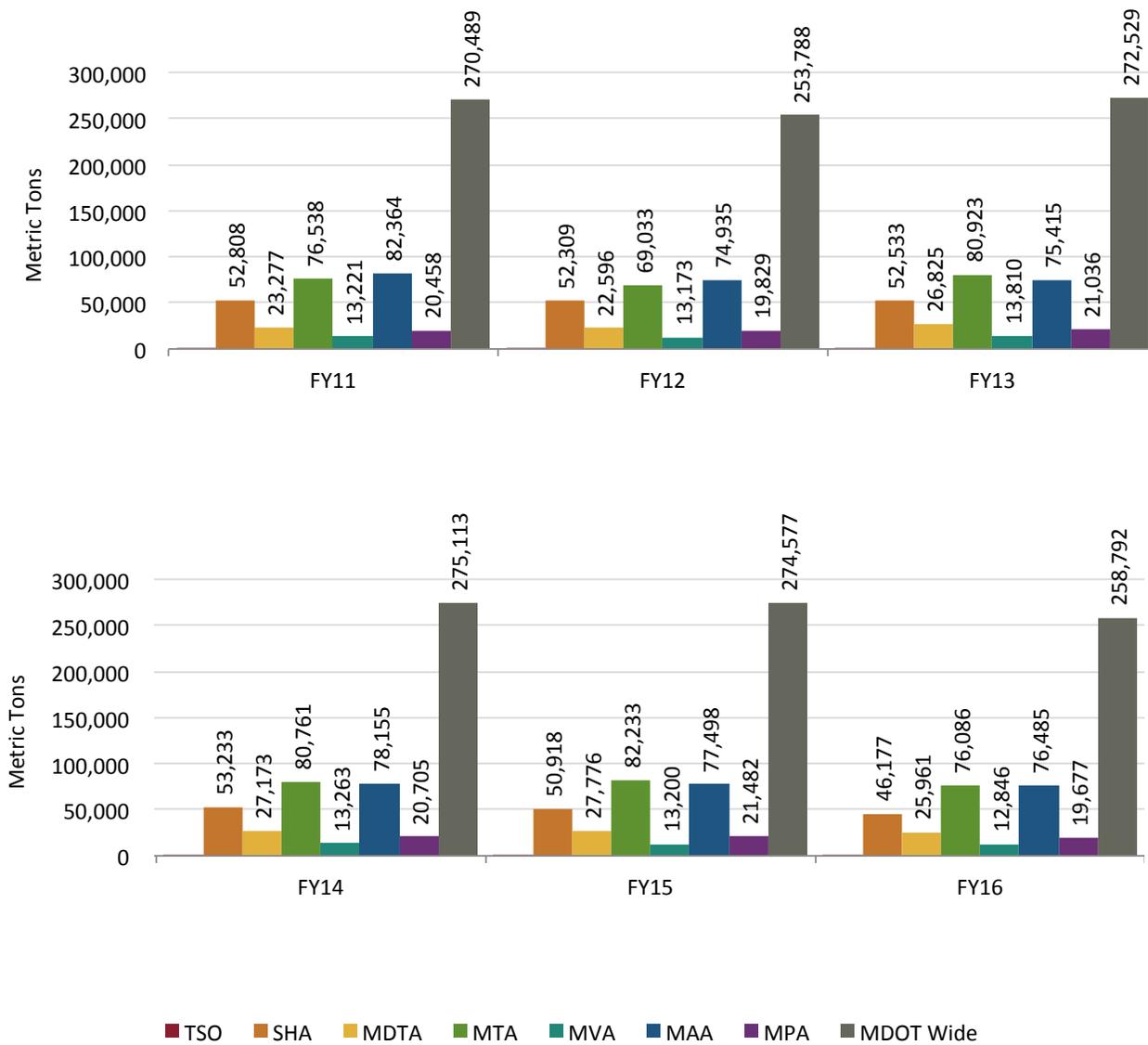
Total Energy Cost



# Be a Good Steward of Our Environment

## PERFORMANCE MEASURE 9.7 Energy Consumption

### Greenhouse Gas Emissions



## TANGIBLE RESULT #10

# Facilitate Economic Opportunity in Maryland



Maryland's transportation system is essential to the State's economy. An efficient transportation system provides a competitive advantage to businesses in a regional, national and global marketplace. Transportation directly impacts the viability of a region as a place where people want to live, work and raise families, all critical to attracting a competent workforce.

### RESULT DRIVER:

Jim Dwyer

*Maryland Port Administration (MPA)*

# Facilitate Economic Opportunity in Maryland

**TANGIBLE RESULT DRIVER:**

Jim Dwyer  
Maryland Port Administration (MPA)

**PERFORMANCE MEASURE DRIVER:**

John Thomas  
State Highway Administration (SHA)

**PURPOSE OF MEASURE:**

To track direct, indirect and induced jobs generated by annual construction investments as an indicator of transportation projects contribution of economic return.

**FREQUENCY:**

Annually (in January)

**DATA COLLECTION METHODOLOGY:**

MDOT compiles the necessary data through the annual CTP process.

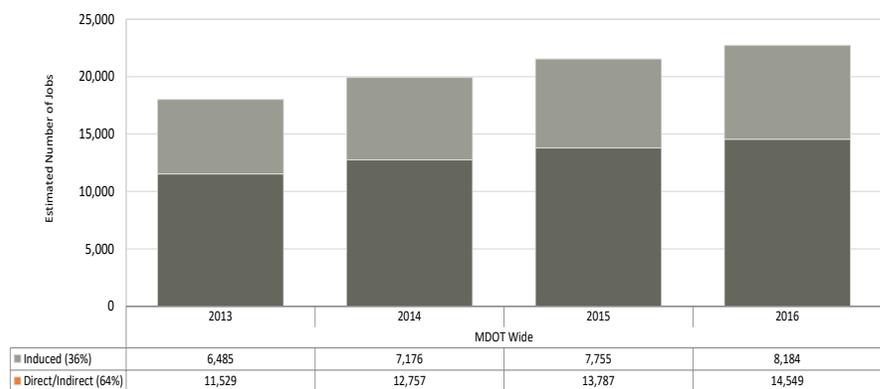
**NATIONAL BENCHMARK:**

N/A

**PERFORMANCE MEASURE 10.1**

**Economic Return from Transportation Investment**

Construction spending on transportation projects has a significant economic impact on people and businesses throughout the state. Economic return from transportation investment is assessed based on the estimated number of jobs created as a result of MDOT investments in capital projects. In FY2016, it is estimated that over 22,500 jobs were created by MDOT. The annual CTP is used to identify planned investments by each MDOT TBU on major construction projects. Construction projects generate three types of jobs: direct jobs are those generated by the actual construction activity; indirect jobs are supported by the business purchases necessary for the project’s construction; and induced jobs are a result of local purchases of goods and services by the direct employees. Capital investments in transportation infrastructure support economic activity across a wider region, beyond the specific project location.

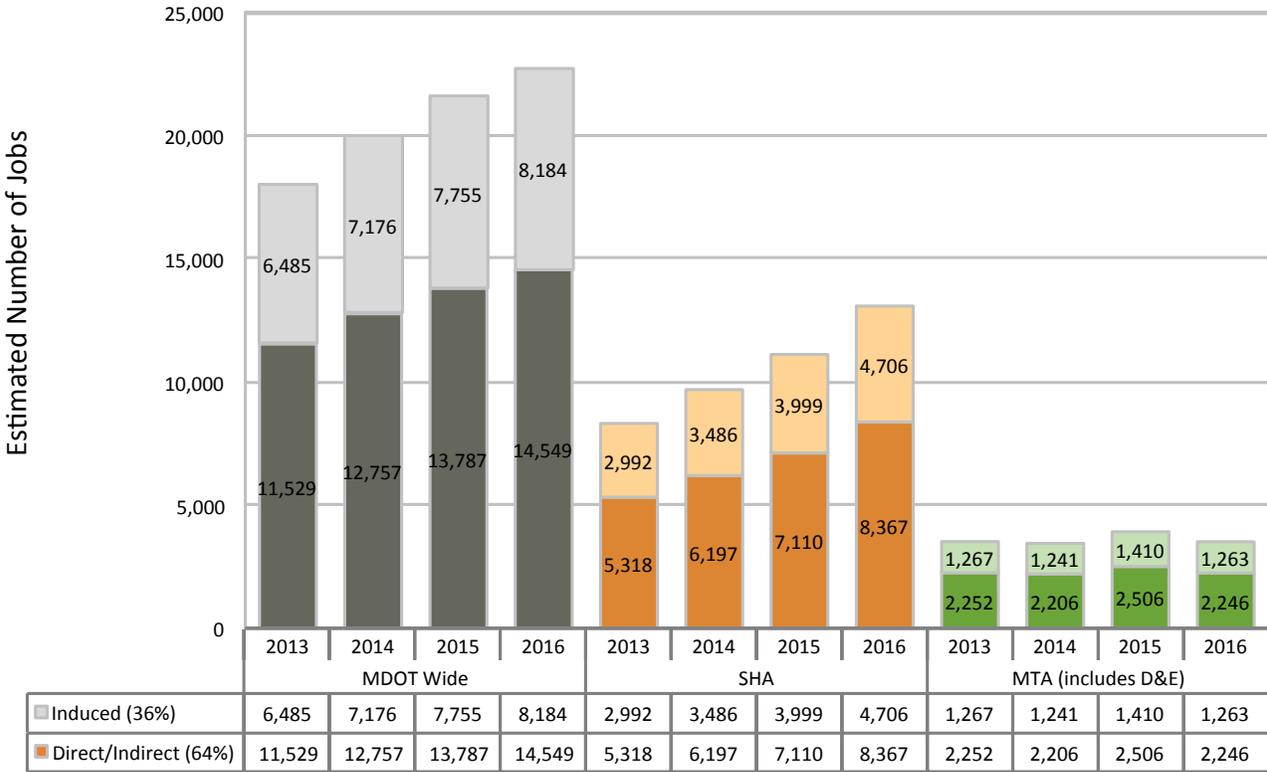


# Facilitate Economic Opportunity in Maryland

## PERFORMANCE MEASURE 10.1

### Economic Return from Transportation Investment

FY2013 to FY2016 Estimated Number of Jobs Created by Business Unit  
Capital / Construction Programs

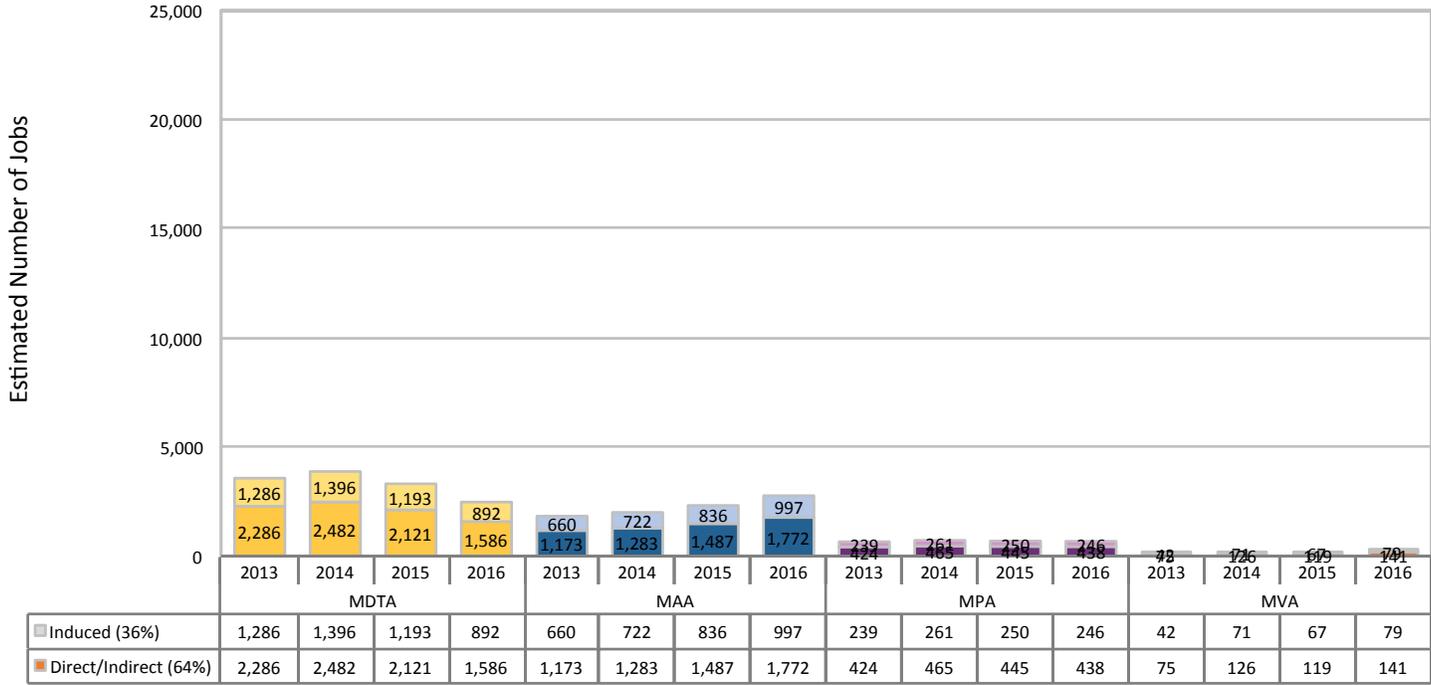


#### Transportation Business Units

■ Induced (36%)    ■ Direct/Indirect (64%)

**PERFORMANCE MEASURE 10.1**  
 Economic Return from Transportation Investment

**FY2013 to FY2016 Estimated Number of Jobs Created by Business Unit  
 Capital / Construction Programs**



Transportation Business Units

■ Induced (36%)    ■ Direct/Indirect (64%)

# Facilitate Economic Opportunity in Maryland

**TANGIBLE RESULT DRIVER:**

Jim Dwyer

Maryland Port Administration (MPA)

**PERFORMANCE MEASURE DRIVER:**

John Thomas

State Highway Administration (SHA)

**PURPOSE OF MEASURE:**

To compare Maryland against other states' economic activity based on access to and condition of the infrastructure.

**FREQUENCY:**

Annually (in October)

**DATA COLLECTION METHODOLOGY:**

Using publicly available data, CNBC assesses every states' infrastructure including value of goods movement; availability of air travel; road and bridge conditions; and commute times.

**NATIONAL BENCHMARK:**

CNBC annual ranking

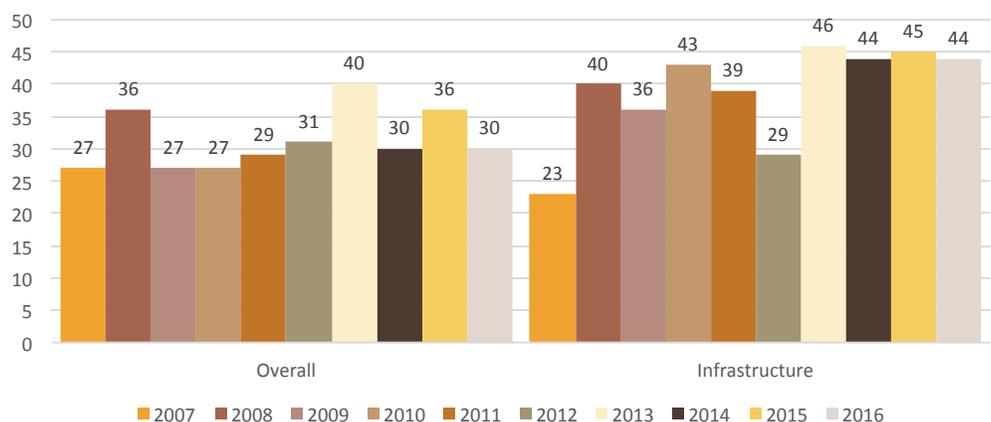
Web link: <http://www.cnbc.com/2016/07/12/americas-top-states-for-business-2016-the-list-and-ranking.html>

**PERFORMANCE MEASURE 10.2**

**Maryland's Ranking in National Transportation Infrastructure Assessment**

The CNBC business news media group uses publicly available data on 60 measures of competitiveness to score each state. The metrics are organized into 10 broad categories and weighted based on how frequently each is used as a selling point in state economic development marketing materials. The infrastructure category is a measure of a state's transportation system and supply of safe drinking water. It includes metrics to compare the value of goods shipped by air, waterways, roads and rail within a state, the quality of roads and bridges, and commute times. The annual rankings can be used as a national benchmark for economic activity over time as a means for comparing Maryland's standing versus other states. From 2015 to 2016, Maryland's overall score moved up from 36 to 30 out of 50 states. As of 2016, Maryland moved up slightly from 2015 in 'Infrastructure', (44 out 50 in 2016 up from 45 in 2015) but remains in the bottom 10 because of the inclusion of mobility calculations in the metric.

**America's Top States for Business  
Annual Rankings for Maryland in Select Categories**



Source: CNBC. America's Top States for Business 2016.

# Facilitate Economic Opportunity in Maryland

**TANGIBLE RESULT DRIVER:**

Jim Dwyer

Maryland Port Administration (MPA)

**PERFORMANCE MEASURE DRIVER:**

Juan Torrico

Maryland Transit Administration (MTA)

**PURPOSE OF MEASURE:**

To assess freight mobility and the amount and value of freight originating and terminating in Maryland as an indicator of how supportive transportation infrastructure is for freight and Maryland's economy.

**FREQUENCY:**

Annually (in April)

**DATA COLLECTION METHODOLOGY:**

U.S. Department of Transportation Freight Analysis Framework (FAF3) Version 3 and MPA.

**NATIONAL BENCHMARK:**

N/A

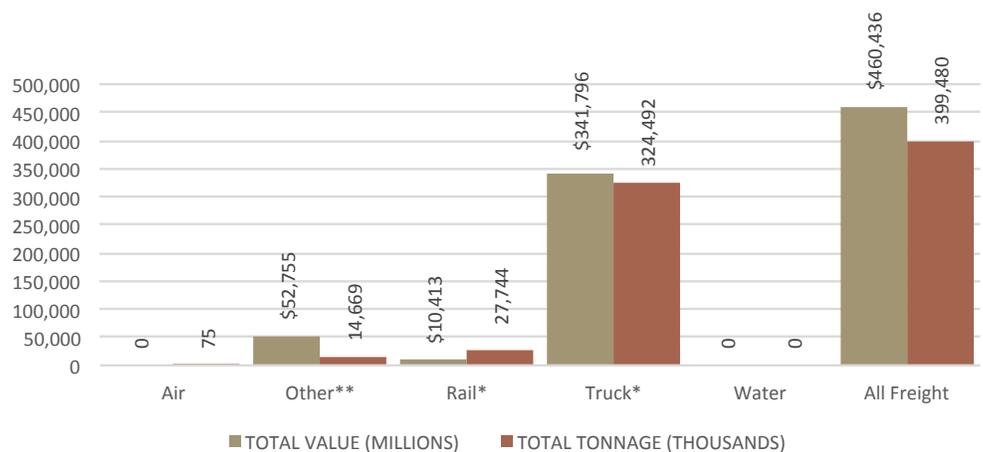
**PERFORMANCE MEASURE 10.3A**

**Freight Mobility: Freight Analysis Framework (FAF) Tonnage and Value of Freight**

Efficient and interconnected multimodal freight movement is essential to the State's economy. Maryland manufacturers depend on the freight system to move raw materials and finished goods between production facilities, distribution centers and retail outlets in Maryland and throughout the U.S. and the world. Freight-dependent industries account for over one million jobs in Maryland.

- Water and rail are well-suited to cost-effectively haul goods long distances. Commercial ships utilize the Port of Baltimore to transfer waterborne goods to land, at which point trucks and rail haul these imported goods to communities around the nation.
- Trucks carry nearly every type of commodity, from consumer products to chemicals to machinery.
- High value and time-sensitive products are commonly shipped via air. The top air freight commodities shipped out of MAA facilities include mail, machinery and transportation equipment.

**2015 Freight Originating and Terminating in Maryland**



# Facilitate Economic Opportunity in Maryland

**TANGIBLE RESULT DRIVER:**

Jim Dwyer

Maryland Port Administration (MPA)

**PERFORMANCE MEASURE DRIVER:**

Juan Torrico

Maryland Transit Administration (MTA)

**PURPOSE OF MEASURE:**

To track public and private international waterborne cargo activity in the Port of Baltimore, which is a strong indicator of jobs generated and economic activity.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

U.S. Census data via website – USA Trade Online.

**NATIONAL BENCHMARK:**

Baltimore ranks third in Mid-Atlantic ports in international cargo.

**PERFORMANCE MEASURE 10.3B**

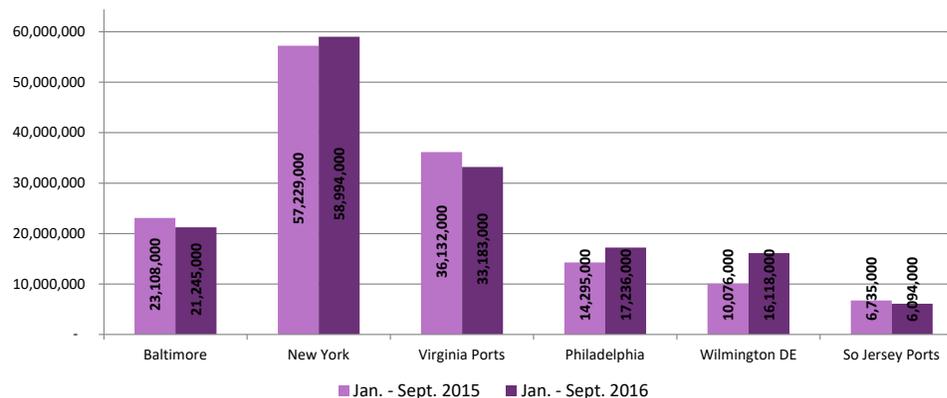
**Freight Mobility: Port of Baltimore Total International Cargo Port-Wide, Market Share and Rankings**

Although total tonnage declined, the Port of Baltimore saw the largest percentage increase in general cargo at 6.9 percent in Q3 of 2016 of all the Mid-Atlantic ports. Imported general cargo tons in Q3 were up on the strength of imported forest products, i.e. imported paper was up 25 percent, imported plywood was up 61 percent and imported pulp was up 41 percent. Exports of containerized cargo were the primary reason general cargo export tons increased – particularly exports of wastepaper and logs. Norfolk was the only other Mid-Atlantic port that saw a gain in general cargo tons, albeit only 2.2 percent.

Ports in the Mid-Atlantic region continue to see a variance in the performance of bulk shipments depending upon which energy commodity is served at that port. Like Baltimore, Norfolk saw their bulk exports decline due to the decreased demand for coal overseas. New York, Wilmington and Philadelphia all saw their import bulk tons increase as refineries in those ports are using cheaper foreign oil rather than oil produced in the USA. In addition, Philadelphia and New York saw increased non-crude oil exports.

Baltimore’s market share declined due to reduced coal exports and less imported salt. Baltimore ranks third in container market share, second for imported Forest Products and first in Autos and Roll-on/Roll-off heavy equipment. For total international cargo, Baltimore ranks third for the Mid-Atlantic ports.

**Mid-Atlantic Ports International Waterborne Cargo YTD**

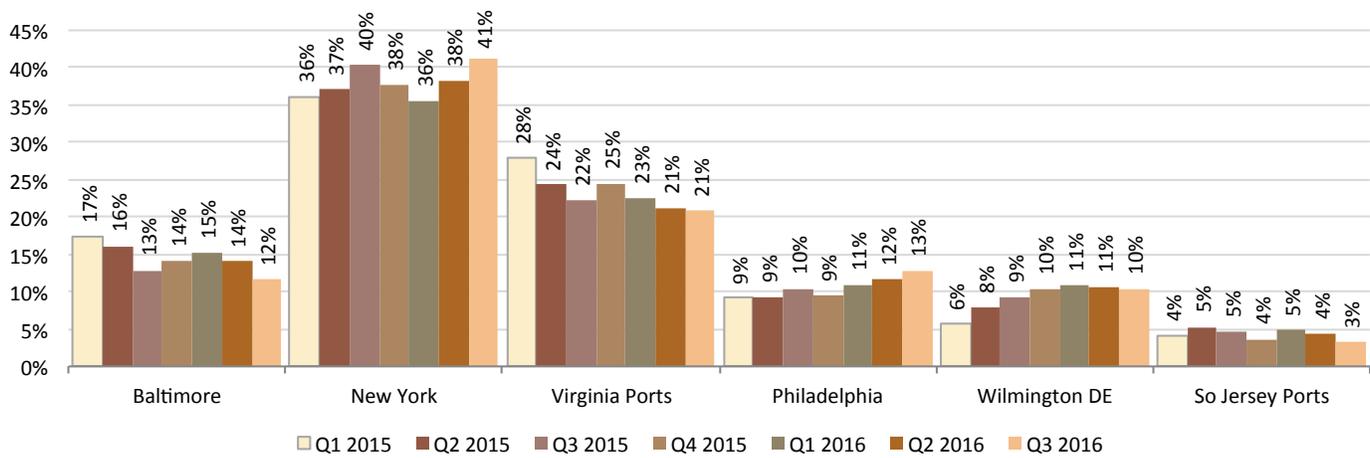


# Facilitate Economic Opportunity in Maryland

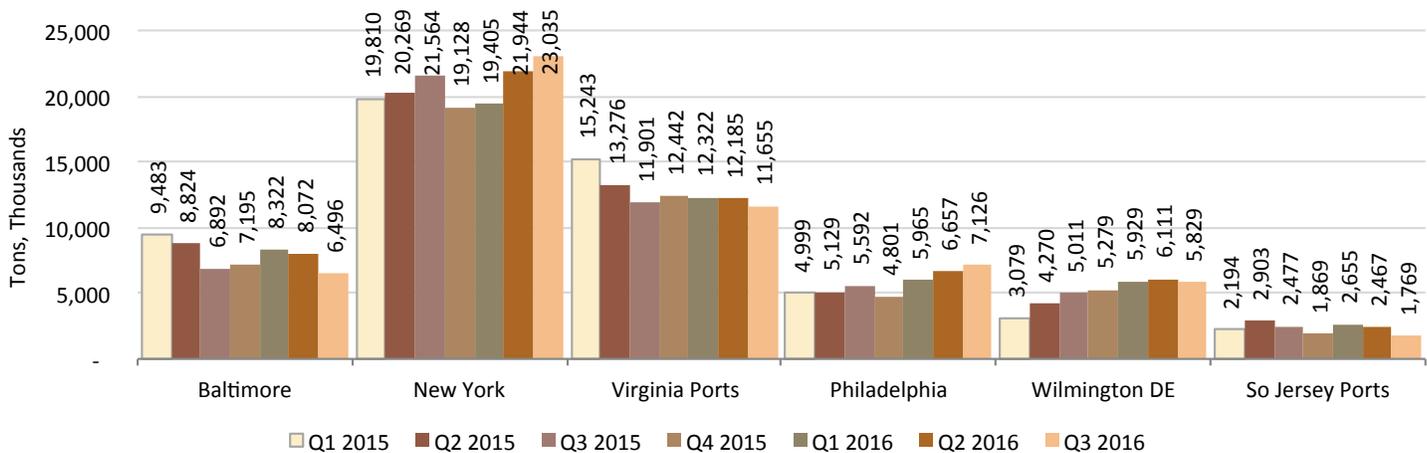
## PERFORMANCE MEASURE 10.3B

Freight Mobility: Port of Baltimore Total International Cargo Port-Wide, Market Share and Rankings

Mid-Atlantic Ports Total International Cargo, Market Share, (%)



Mid-Atlantic Ports International Waterborne Cargo Tonnage



# Facilitate Economic Opportunity in Maryland

**TANGIBLE RESULT DRIVER:**

Jim Dwyer

Maryland Port Administration (MPA)

**PERFORMANCE MEASURE DRIVER:**

Juan Torrico

Maryland Transit Administration (MTA)

**PURPOSE OF MEASURE:**

Data shows level of activity at Public Marine Terminals.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

Data obtained from MPA cargo billing reporting and statistical system (BRASS). Historical data is available back to 1998.

**NATIONAL BENCHMARK:**

N/A

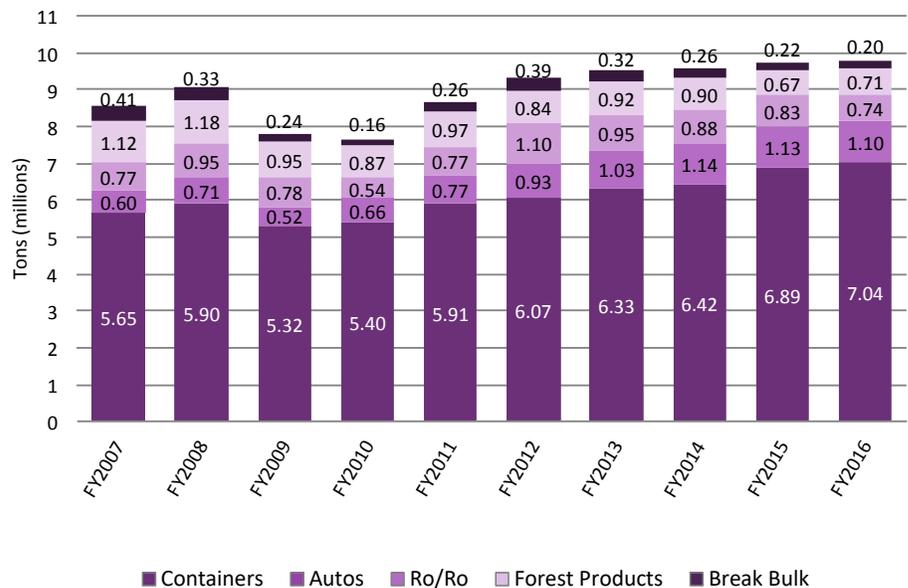
**PERFORMANCE MEASURE 10.3C**

**MPA Total General Cargo Tonnage Including the Following Strategic Commodities: Containers, Autos, RoRo and Imported Forest Products**

As a rule of thumb, general cargo generates more jobs per ton than bulk commodities. The public terminals' total tonnage for the first ten months of 2016 is greater than the same period of the prior year and is on trend for a new record. Containers showed the strongest growth, followed by imported paper and autos. Although low commodity prices on both agricultural products and minerals keep sales of farm and mining equipment suppressed and the strong US dollar discourages exports, Baltimore remains the top Ro/Ro port on the East Coast. Although there was a slight reduction in imported wood pulp, total forest products tonnage was up.

MPA's general cargo tonnage is up over 3 percent for the first ten months of 2016. If this trend holds, it is likely to produce a new high-water mark for MPA general cargo by beating the 2014 record of nearly 9.7 million tons.

**MPA General Cargo, FY2007 to FY2016**



# Facilitate Economic Opportunity in Maryland

**TANGIBLE RESULT DRIVER:**

Jim Dwyer

Maryland Port Administration (MPA)

**PERFORMANCE MEASURE DRIVER:**

Rafael Espinoza

Maryland Transportation Authority (MDTA)

**PURPOSE OF MEASURE:**

To minimize the number of weight-posted bridges to facilitate the improvement in movement of goods to businesses, communities and the economy.

**FREQUENCY:**

Annually (in July)

**DATA COLLECTION METHODOLOGY:**

Data reflects Federal reporting in April of each year. The number of bridges on the State System that are weight-posted are reported in the Structure Inventory and Appraisal (SI&A) report. That number is then divided by the total number of SHA and MDTA bridges, resulting in the calculation of the percentage of weight-posted bridges on the State system.

**NATIONAL BENCHMARK:**

N/A

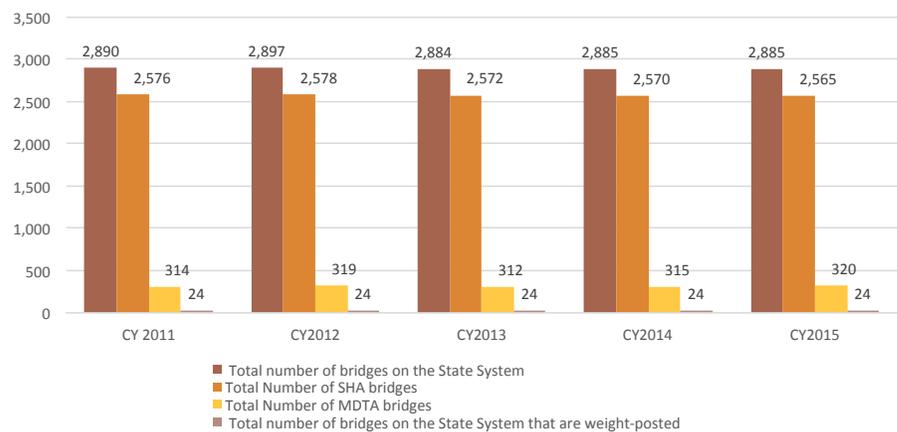
**PERFORMANCE MEASURE 10.4**

**Number and Percentage of Bridges on the State System that are Weight-Posted**

Weight-posted bridges are those that are determined unable to safely carry the maximum weight of a legally loaded vehicle (80,000 lbs. for tractor trailers and 70,000 lbs. for dump trucks). Weight-posted bridges adversely affect movement of goods to businesses and communities, and can impact daily commercial operations and business growth. Allowing all legally-loaded vehicles to traverse the bridges on the State system is essential to commerce in Maryland, facilitating the movement of goods and provision of services efficiently throughout the State. Minimizing weight-posted bridges ensures the safety of the traveling public and facilitates emergency response time by avoiding the need to establish detour routes. If a bridge cannot safely carry all legal loads, due to its present condition or original design criteria, it will be evaluated and a vehicle weight will be established that it can safely carry. This lower vehicle weight (which is less than the legal weight) will be placed on signs alerting all potential users of the maximum load that the bridge should carry.

Less than 1 percent of SHA and MDTA bridges have a weight restriction.

**Weight Posted Bridges**



# Facilitate Economic Opportunity in Maryland

## TANGIBLE RESULT DRIVER:

Jim Dwyer

*Maryland Port Administration (MPA)*

## PERFORMANCE MEASURE DRIVER:

Corey Stottlemeyer

*The Secretary's Office (TSO)*

## PURPOSE OF MEASURE:

To quantify the impacts of changes in the transportation network on the state's economy due to completed transportation projects providing businesses with access to labor, customers, and suppliers. Improved access leads to greater opportunities.

## FREQUENCY:

Annually (in April)

## DATA COLLECTION METHODOLOGY:

As transportation projects are completed and the transportation network is enhanced, changes in travel demand and user choice will be modeled using a transportation economic impact model; this is a multimodal measure.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 10.5

### Change in Market Access due to Improvements in the Transportation Network

Improving access within Maryland's transportation network is a critical role MDOT plays in facilitating economic opportunity for the citizens of Maryland, its businesses and those who come here to do business. Currently, MDOT does not measure the impact of changes to the transportation network and its effect on market access. This measure would allow MDOT to look at how improvements in roads and multimodal access is affecting Maryland's economy and assess whether businesses have better access to labor, customers, suppliers and international markets.

This measure includes potential impacts from:

- Business Relocation – Improved market access has the effect of strengthening an economy's competitiveness in attracting and retaining business relative to other locations.
- Productivity Growth – Increasing an economy's accessibility and connectivity generates agglomeration benefits from returns to scale in production, knowledge spillovers, and better matching of suppliers and employees to businesses.
- Increased Import/Export Activity – Improving an economy's access to international gateways can enable new import/export activity.

The Multimodal Process Improvement Team for this measure has met. The tool used to measure the market access has been secured. We are currently developing a standardized approach to modeling projects. We expect to have data in April.

# Facilitate Economic Opportunity in Maryland

## TANGIBLE RESULT DRIVER:

Jim Dwyer

*Maryland Port Administration (MPA)*

## PERFORMANCE MEASURE DRIVER:

Corey Stottlemeyer

*The Secretary's Office (TSO)*

## PURPOSE OF MEASURE:

To quantify the impacts of changes in the transportation network on the productivity of people and businesses in Maryland.

## FREQUENCY:

Annually (in April)

## DATA COLLECTION METHODOLOGY:

As transportation projects are completed and the transportation network is enhanced, changes in travel demand and user choice will be modeled using a transportation economic impact model; this is a multimodal measure.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 10.6

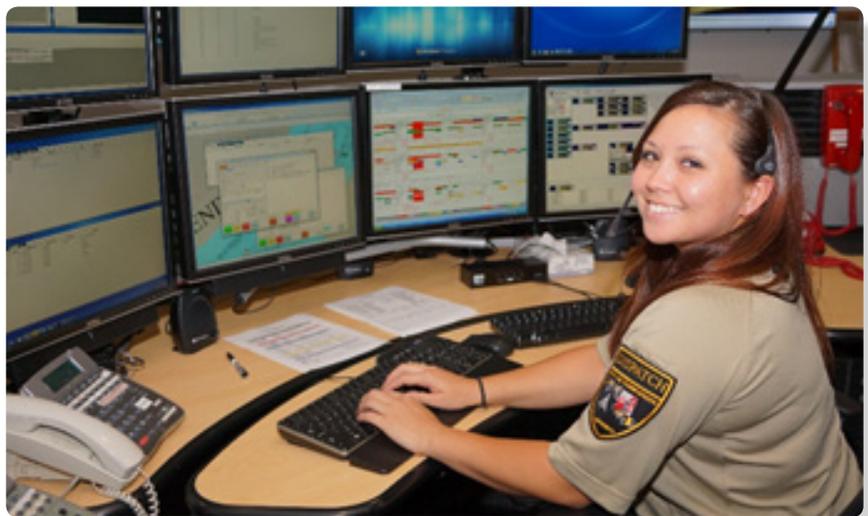
### Change in Productivity due to Improvements in the Transportation Network

Productivity gains are essential to economic growth as businesses and people have to do more with fewer resources. The transportation network is similar to the Internet and other innovations that allow people and businesses to be more productive. Currently, MDOT does not measure the impact of changes to the transportation network and its effect on productivity.

Using a transportation economic impact model, MDOT will be able to assess four types of productivity benefits to ensure it helps to facilitate business opportunities throughout Maryland:

1. Travel cost savings;
2. Reliability benefits for industry;
3. Delivery logistics and supply chain benefits; and
4. Agglomeration effects on access to specialized skills and services.

The Multimodal Process Improvement Team for this measure has met. The tool used to measure the productivity has been secured. We are currently developing a standardized approach to modeling projects. We expect to have data in April.



# Facilitate Economic Opportunity in Maryland

**TANGIBLE RESULT DRIVER:**

Jim Dwyer

Maryland Port Administration (MPA)

**PERFORMANCE MEASURE DRIVER:**

John Thomas

State Highway Administration (SHA)

**PURPOSE OF MEASURE:**

To estimate benefits to highway users due to CHART incident management, major/minor capital improvements, signal retiming, HOV lane, and park-and-ride operations as an indicator of cost savings due to reduced delay.

**FREQUENCY:**

Annually (in January)

**DATA COLLECTION METHODOLOGY:**

MDOT collects and maintains data on travel speeds, traffic volumes, incidents, and facility usage to develop user cost savings.

**NATIONAL BENCHMARK:**

N/A

**PERFORMANCE MEASURE 10.7**

**Total User Cost Savings for the Traveling Public due to Congestion Management**

The SHA and MDTA implement various projects, programs and policies to reduce congestion and enhance mobility on their facilities. The SHA focuses on both recurrent and non-recurrent aspects of congestion. These include CHART, Incident Management and Intelligent Transportation Systems (ITS) programs, major/minor roadway geometric improvements, traffic signal system optimization, and multimodal strategies like HOV lane operations and park-and-ride facilities. The congestion management solutions implemented by SHA and MDTA result in significant user cost savings (e.g. delay reduction, fuel savings) to automobile and truck traffic. MDOT continues to implement operational strategies, including a Transportation Systems Management and Operations (TSM&O) Strategic Plan, and provides Traffic Incident Management training to partner organizations, while also exploring local, regional and state incident management coordination opportunities. Reductions in travel times directly results in savings in roadway user costs.

**Annual User Cost Savings Through MDOT Congestion Management Efforts (Millions)**



# Facilitate Economic Opportunity in Maryland

**TANGIBLE RESULT DRIVER:**

Jim Dwyer  
Maryland Port Administration (MPA)

**PERFORMANCE MEASURE DRIVER:**

John Thomas  
State Highway Administration (SHA)

**PURPOSE OF MEASURE:**

To quantify the degree of congestion experienced by highway users when traveling during peak hours.

**FREQUENCY:**

Annually (in January)

**DATA COLLECTION METHODOLOGY:**

Includes private sector vehicle probe speed data, and traffic count data on average weekdays.

**NATIONAL BENCHMARK:**

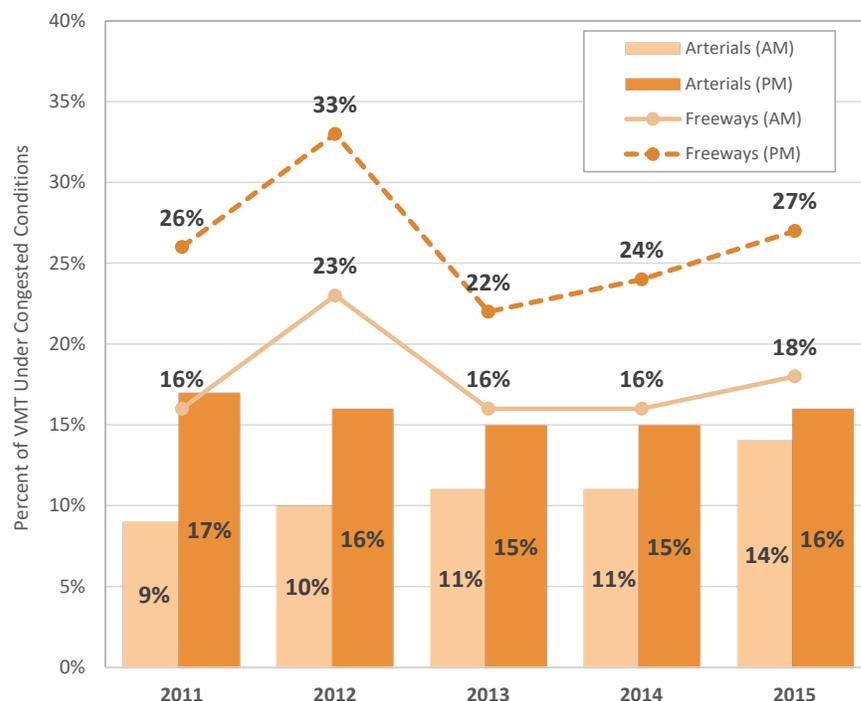
N/A

**PERFORMANCE MEASURE 10.8**

**Percent of VMT in Congested Conditions on Maryland Freeways and Arterials in the AM/PM Peak Hours**

This measure represents the percentage of peak hour VMT on Maryland highways that occur in congested conditions. Congestion on freeways is said to occur when the travel time index (TTI) ratio is greater than 1.3 (traffic travels at 25 percent slower than the free flow speed). Congestion on arterials is said to occur when the traffic Level of Service (LOS) is rated E, or worse, on a scale of A through F. These congestion metrics are a good indicator of customers' experience on roadways in morning and evening peak hours. The share of VMT on the freeways/expressways which occurred in congested conditions is generally higher than the share for arterial roadways. Peak hour congestion is dominated by non-discretionary trips including goods movement, commute and school trips. Reduced congestion and enhancing the reliability of peak hour trips make Maryland more attractive for economic development and provide users with a high quality safe, efficient and reliable highway system.

**Peak Hour Congested VMT Trends**



# Facilitate Economic Opportunity in Maryland

## TANGIBLE RESULT DRIVER:

Jim Dwyer

Maryland Port Administration (MPA)

## PERFORMANCE MEASURE DRIVER:

Jack Cahalan

Maryland Aviation Administration

(MAA)

## PURPOSE OF MEASURE:

To demonstrate the percent of scheduled nonstop destinations served by BWI Marshall against the total number of nonstop destinations served by the region's three major airports.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Air service schedule analysis.

## NATIONAL BENCHMARK:

Reagan National Airport; Dulles International Airport

## PERFORMANCE MEASURE 10.9A

### Market Share: Percent of Nonstop Markets Served Relative to Benchmark Airports

The Washington-Baltimore region is served by three primary airports. They include: Baltimore/Washington International (BWI) Thurgood Marshall Airport; Ronald Reagan National Airport; and Dulles International Airport. More than 23.8 million passengers flew through BWI Marshall in 2015, an all-time record for passenger traffic at BWI Marshall. This upward trend continued in the third quarter of 2016. In July 2016, 2,403,170 passengers flew through BWI Marshall Airport. That figure is an increase of 1.6 percent over the same month in 2015 and a new passenger record for the month of July. By September of 2016, BWI Marshall posted its fifteenth-straight monthly passenger record. International passenger traffic climbed by 18 percent compared to the third quarter one year ago. The chart below demonstrates that BWI Marshall serves nearly 50 percent of the total number of nonstop destinations served by the region's three airports. Today, BWI Marshall provides more than 300 daily nonstop departures and flights to 80 domestic and international destinations. The number of nonstop destinations an airport serves is an important metric, as nonstop service is preferred by passengers.

Percent of Nonstop Markets Served Relative to Benchmark Airports in Q3 2014-2016



# Facilitate Economic Opportunity in Maryland

## TANGIBLE RESULT DRIVER:

Jim Dwyer

Maryland Port Administration (MPA)

## PERFORMANCE MEASURE DRIVER:

Jack Cahalan

Maryland Aviation Administration (MAA)

## PURPOSE OF MEASURE:

To demonstrate Martin State Airport's share of the general aviation business in the Baltimore region.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Operations Network Data compiled by the Federal Aviation Administration.

## NATIONAL BENCHMARK:

General aviation activity at BWI Marshall's general aviation facility

## PERFORMANCE MEASURE 10.9B

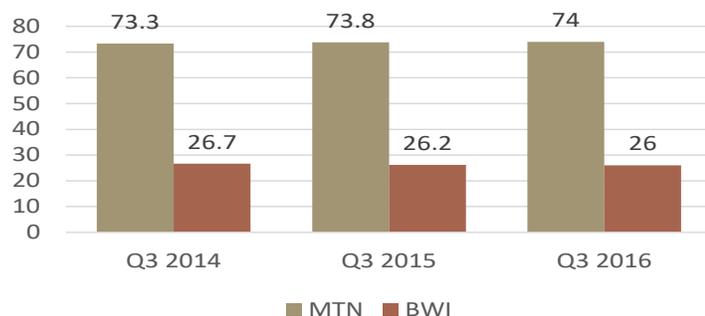
### Market Share: Martin State Airport's Regional Market Share

Martin State Airport is a general aviation facility located in eastern Baltimore County, Maryland serving the general aviation needs of the Baltimore region. It is owned and operated by the State of Maryland. This performance measure gauges the percentage of itinerant general aviation activity at Martin State Airport as compared to the itinerant general aviation activity at BWI Marshall. Itinerant general aviation activity is defined as a flight where its origin or destination takes it beyond the electronic control of the local control tower. This measure captures the amount of discretionary use of Martin State Airport by the business and general aviation community flying in and out of the Baltimore region.

The volume of itinerant general aviation operations is an indicator of how much business traffic Martin State Airport is, or is not, attracting. The more itinerant operations, the more in potential fuel sales and other support operations occur at Martin State Airport. Such operations generate revenue and support existing jobs at the airport among support services, as well as supporting jobs within the general area surrounding Martin State Airport (hotels, restaurants, rental car, etc.).

In Q3 2016, at the request of the Maryland Aviation Administration, U.S. Customs and Border Protection agreed to process international general aviation flights at Martin State Airport that originated outside the United States. With this new service, 12 international flights were processed at Martin State Airport in Q3 2016. These high value operations are flights that would not have utilized Martin State in the past due to a lack of Customs processing. A new marketing video promoting Martin State Airport's accessibility and this new customs processing capability is being utilized on social media and at General Aviation/Business Aviation trade shows in order to increase international traffic at the facility.

Percent of Q3 Itinerant General Aviation Activity 2014-2016



# Facilitate Economic Opportunity in Maryland

## TANGIBLE RESULT DRIVER:

Jim Dwyer

Maryland Port Administration (MPA)

## PERFORMANCE MEASURE DRIVER:

Jack Cahalan

Maryland Aviation Administration (MAA)

## PURPOSE OF MEASURE:

To determine market share in Baltimore/Washington region by tracking number of passengers and departing flights at BWI Marshall compared to other airports in the region.

## FREQUENCY:

Quarterly

## DATA COLLECTION METHODOLOGY:

Air service schedule analysis.

## NATIONAL BENCHMARK:

Reagan National Airport; Dulles International Airport

## PERFORMANCE MEASURE 10.9C

### Market Share: Number of Passengers and Departing Flights Relative to Benchmark Airports

The Washington-Baltimore region is served by three primary airports. They include: Baltimore/Washington International (BWI) Thurgood Marshall Airport; Ronald Reagan National Airport; and Dulles International Airport. More than 23.8 million passengers flew through BWI Marshall Airport in 2015, an all-time record for passenger traffic. This upward trend continued in the third quarter of 2016 with BWI Marshall posting 15-straight monthly passenger records through September 2016. Due to the seasonal nature of air service schedules, the most valid way to track performance is a comparison of identical quarters in prior calendar years. As seen in the following charts, BWI Marshall Airport's percentage of departing flights steadily increased between the third quarter of 2014 and the same time period in 2016. This positive performance is due primarily to continued growth by Southwest, jetBlue and Spirit airlines, as well as the addition of a full summer schedule by Allegiant Airlines in 2016. In the third quarter of 2016, BWI Marshall Airport served more passengers than any other airport in the region.

BWI is first in market share of passengers and third in market share of number of departing flights. This is because Reagan National handles a great deal of commuter flights which use smaller aircraft and carry fewer passengers. This fact results in a larger number of overall departures at Reagan than BWI Marshall. This "commuter factor" is also present, to a lesser degree, at Dulles.

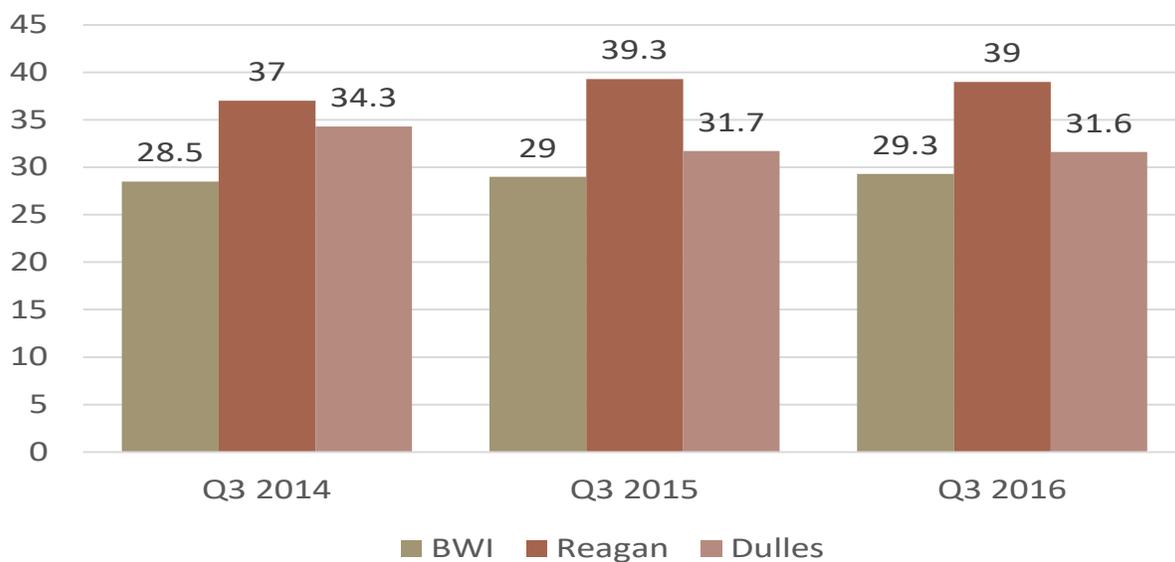
By contrast, BWI Marshall handles relatively few commuter flights. The overwhelming majority of flights at BWI Marshall involve regularly scheduled longer distance flights using standard size commercial aircraft like the Boeing 737 flown by Southwest Airlines, which is responsible for 70 percent of the traffic at BWI Marshall. As an example, a commuter jet may carry 50 passengers where a 737-800 model aircraft flown by Southwest will carry 175.

# Facilitate Economic Opportunity in Maryland

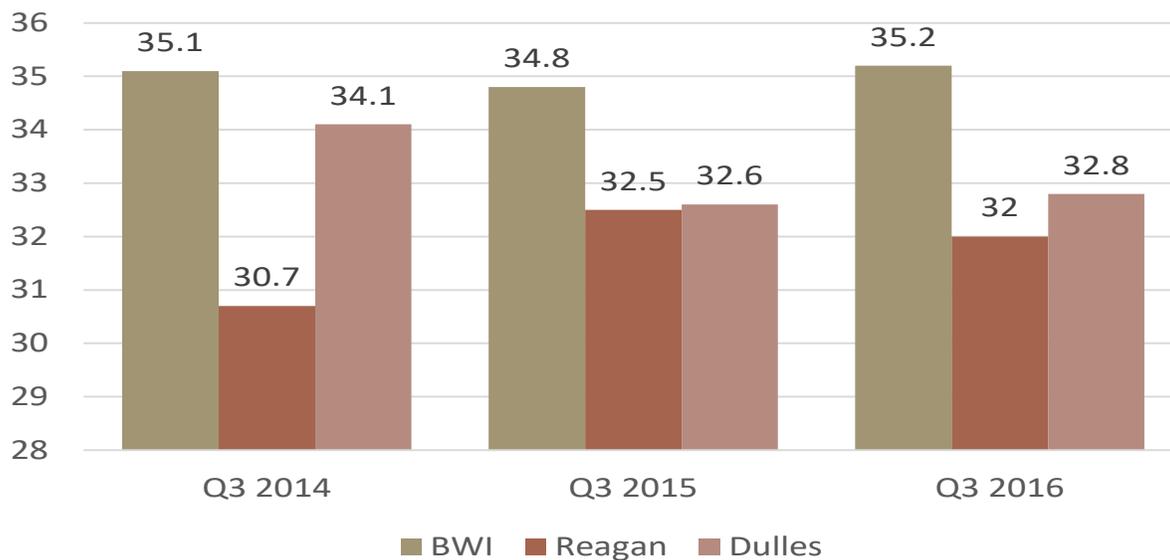
## PERFORMANCE MEASURE 10.9C

Market Share: Number of Passengers and Departing Flights Relative to Benchmark Airports

Percent Total Daily Departures at the Region's Airports Q3 2014-2016



Percent Total Passengers Served by the Regions Airports Q3 2014-2016



# Facilitate Economic Opportunity in Maryland

**TANGIBLE RESULT DRIVER:**

Jim Dwyer  
Maryland Port Administration (MPA)

**PERFORMANCE MEASURE DRIVER:**

Jack Cahalan  
Maryland Aviation Administration (MAA)

**PURPOSE OF MEASURE:**

To demonstrate how the cruise operation at the Port of Baltimore performs against the number of cruise ship arrivals at other mid-Atlantic ports.

**FREQUENCY:**

Quarterly

**DATA COLLECTION METHODOLOGY:**

Self-reporting by the various cruise terminals.

**NATIONAL BENCHMARK:**

New York, NY; Bayonne, NJ; Norfolk, VA

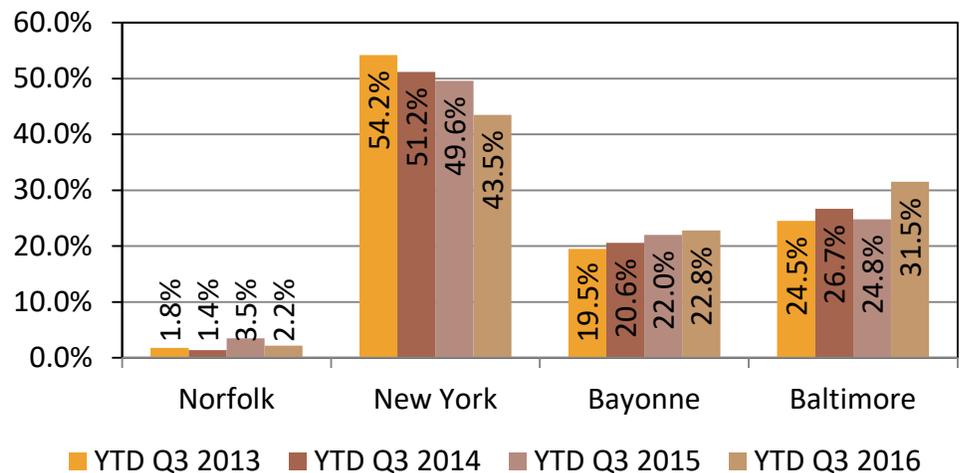
**PERFORMANCE MEASURE 10.9D**

**Market Share: Mid-Atlantic International Cruise Market Share**

The Port of Baltimore is one of four mid-Atlantic ports that offer passenger cruise service to destinations including the Caribbean, Bahamas, and Bermuda. Other ports include: New York, NY; Bayonne, NJ; and Norfolk, VA. Both Royal Caribbean and Carnival cruise lines offer diverse, year-round sailings from Baltimore. In the first half of 2016, Baltimore’s international cruise ship arrivals outperformed the market compared to the same period of the prior year. Baltimore’s increase was due to Carnival Pride’s return with winter cruises after being repositioned from Tampa, FL. New York’s numbers declined as they saw fewer cruise ship calls because Disney and MSC did not return in 2016. The Port Liberty Terminal in Bayonne, NJ was flat with the same number of cruises. Baltimore is 2nd in the Mid-Atlantic, and its market share is on a positive trend. Located just 2.5 miles from Baltimore’s Inner Harbor and 10 miles from BWI Marshall Airport, the Port of Baltimore is easily accessible to the Baltimore/ Washington -Northern Virginia region, recognized as one of the most populated and affluent in the nation.

Strategies underway at POB to attract additional cruise business and increase market share include: replace damaged gangway; new VIP lounge; install new PA and alarm system; A/C improvements to the breezeway; and exterior signage/circulation improvements. Baltimore’s cruise business is on an upward trend as shown below.

**Market Share, Mid-Atlantic International Cruise Ship Arrivals, (Calendar Year Quarters)**



# Facilitate Economic Opportunity in Maryland

## TANGIBLE RESULT DRIVER:

Jim Dwyer

*Maryland Port Administration (MPA)*

## PERFORMANCE MEASURE DRIVER:

Del T. Adams

*The Secretary's Office (TSO)*

## PURPOSE OF MEASURE:

To improve customer service with a predictable, consistent and transparent process for obtaining an access permit for development in Maryland.

## FREQUENCY:

Annually (in January)

## DATA COLLECTION METHODOLOGY:

Reviews, permits and delivery times are tracked in the Access Management Database.

## NATIONAL BENCHMARK:

N/A

## PERFORMANCE MEASURE 10.10

### Percent of Roadway Access Permits Issued within 21 Days or Less

Access permits help promote safe and efficient roads for travel while supporting economic development and growth in jobs and businesses. The issuance of access permits, and the resulting construction of roadway and entrance improvements by developers, are some of the last steps before opening a business or selling commercial or residential properties for occupancy. This activity contributes to the creation of new jobs, businesses and development/redevelopment opportunities.

This measure tracks MDOT-SHA efforts to improve customer service with a predictable, consistent and transparent process for obtaining an access permit. The performance target is 90 percent of permits are issued within 21 days (after receipt of a complete application package). On average over the last five years, 125-150 completed applications are received each year.

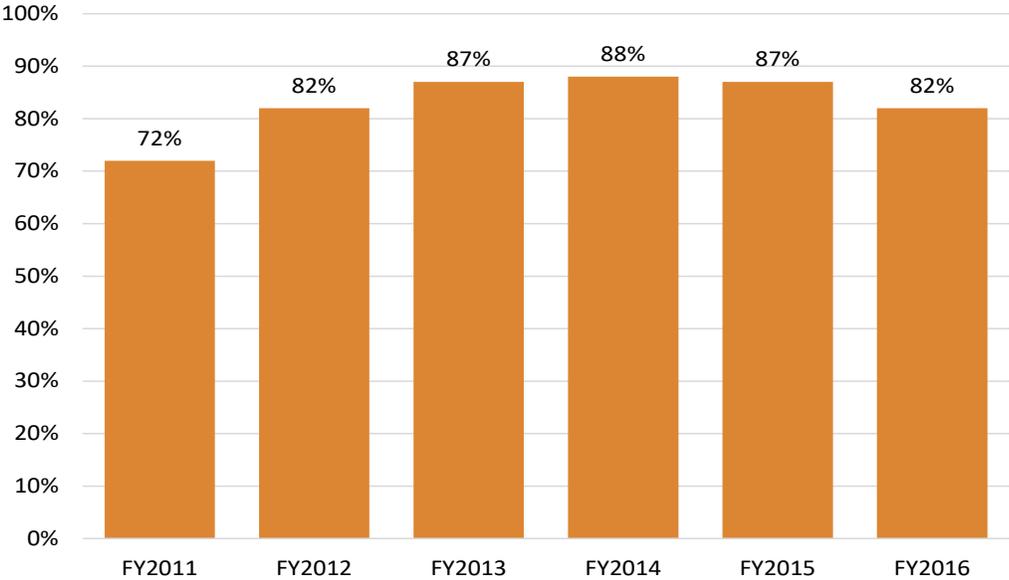
In FY 2016, 82 percent of 127 access permits were issued within 21 days. This change in performance was due, in part, to the decentralization of the access management process to SHA's seven District Offices and a learning curve associated with that new organizational structure. A customer feedback survey was undertaken in July 2016 and the survey results are being used to develop new strategies, including: implementing a pre-application process with stakeholders to establish clear expectations; allocating additional staff resources; and implementing an electronic plan submittal process to facilitate plan exchange and reviews. SHA will continue to meet with stakeholders to assess effectiveness and improve processes.

# Facilitate Economic Opportunity in Maryland

## PERFORMANCE MEASURE 10.10

Percent of Roadway Access Permits Issued within 21 Days or Less

Percent of Permits Issued in 21 Days





**All Electronic Tolling (AET)** – Collection of tolls at highway speeds using *E-ZPass* transponders or video tolling; no toll booths or cash collection.

**Annual Attainment Report on Transportation System Performance** – Pursuant to Transportation Article Section 2-103.1 of the Annotated Code of Maryland, the State is required to develop or update an annual performance report on the attainment of transportation goals and benchmarks in the Maryland Transportation Plan (MTP) and Consolidated Transportation Program (CTP). The Attainment Report must be presented annually to the Governor and General Assembly before they may consider the MTP and CTP.

**Calendar Year (CY)** – The period of 12 months beginning January 1 and ending December 31 of each reporting year.

**Coordinated Highways Action Response Team (CHART)** – CHART is an incident management system aimed at improving real-time travel conditions on Maryland’s highway system. CHART is a joint effort of the State Highway Administration, Maryland Transportation Authority and the Maryland State Police, in cooperation with other federal, state and local agencies.

**Consolidated Transportation Program (CTP)** – A six-year program of capital projects, which is updated annually to add new projects and reflect changes in financial commitments.

**Fiscal Year (FY)** – A yearly accounting period covering the time frame between July 1 and June 30 of each reporting year.

**MPA General Cargo** – Foreign and domestic waterborne general cargo handled at the public (MPA) terminals.

**Port of Baltimore Foreign Cargo** – International (Foreign) cargo handled at public and private terminals within the Baltimore Port District. This includes bulk cargo (e.g., coal, sugar, petroleum, ore, etc. shipped in bulk) and all general cargo (e.g., miscellaneous goods shipped in various packaging).

**MAA** – Maryland Aviation Administration operates Baltimore/Washington International Thurgood Marshall Airport (BWI Marshall) and Martin State Airport, a general aviation/reliever airport northeast of Baltimore.

**MDTA** – Maryland Transportation Authority operates and maintains the State’s eight toll facilities.

**Mode** - Form of transportation used to move people or cargo (e.g., truck, rail, air).

**MPA** – Maryland Port Administration promotes the Port of Baltimore as a leading east coast hub for cargo and cruise activity.

**MTA** – Maryland Transit Administration provides Local Bus, Light Rail, Metro Rail, Paratransit services and regional services through commuter rail (MARC) and Commuter Bus, as well as grant funding and technical assistance.

**MVA** – Motor Vehicle Administration serves as the gateway to Maryland’s transportation infrastructure, providing a host of services for drivers and vehicles, including registration, licensing and highway safety initiatives.

**SHA** – State Highway Administration manages the State’s highway system which includes 17,117 lane miles of roads and 2,564 bridges

**TBU** – Transportation Business Unit

**TSO** – The Secretary’s Office

**Vehicle Miles of Travel (VMT)** – A measurement of the total miles traveled by all vehicles.

**Larry Hogan**  
Governor

**Boyd K. Rutherford**  
Lieutenant Governor

**Pete K. Rahn**  
Secretary

## **MARYLAND DEPARTMENT OF TRANSPORTATION**

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