

TANGIBLE RESULT #2

Use Resources Wisely



MDOT receives resources from our customers and they expect products and services in return. In order 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 Stottleyer

The Secretary's Office (TSO)

PERFORMANCE MEASURE DRIVER:

David Fleming

The Secretary's Office (TSO)

PURPOSE OF MEASURE:

To track the efficiency of capital spending

FREQUENCY:

Quarterly / Annually

DATA COLLECTION METHODOLOGY:

Tracking capital project spending versus the Consolidated Transportation Plan appropriated funds

BENCHMARK:

N/A

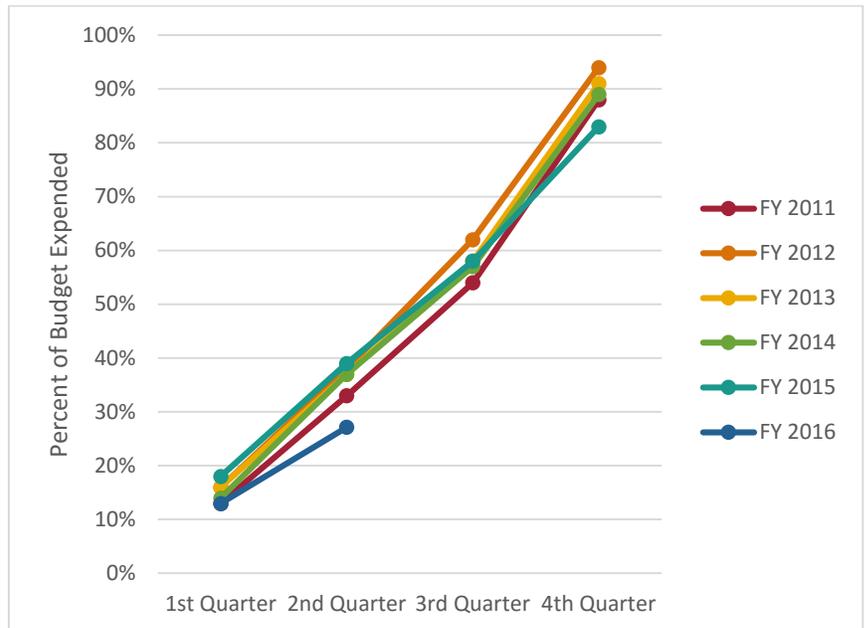
PERFORMANCE MEASURE 2.1

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.

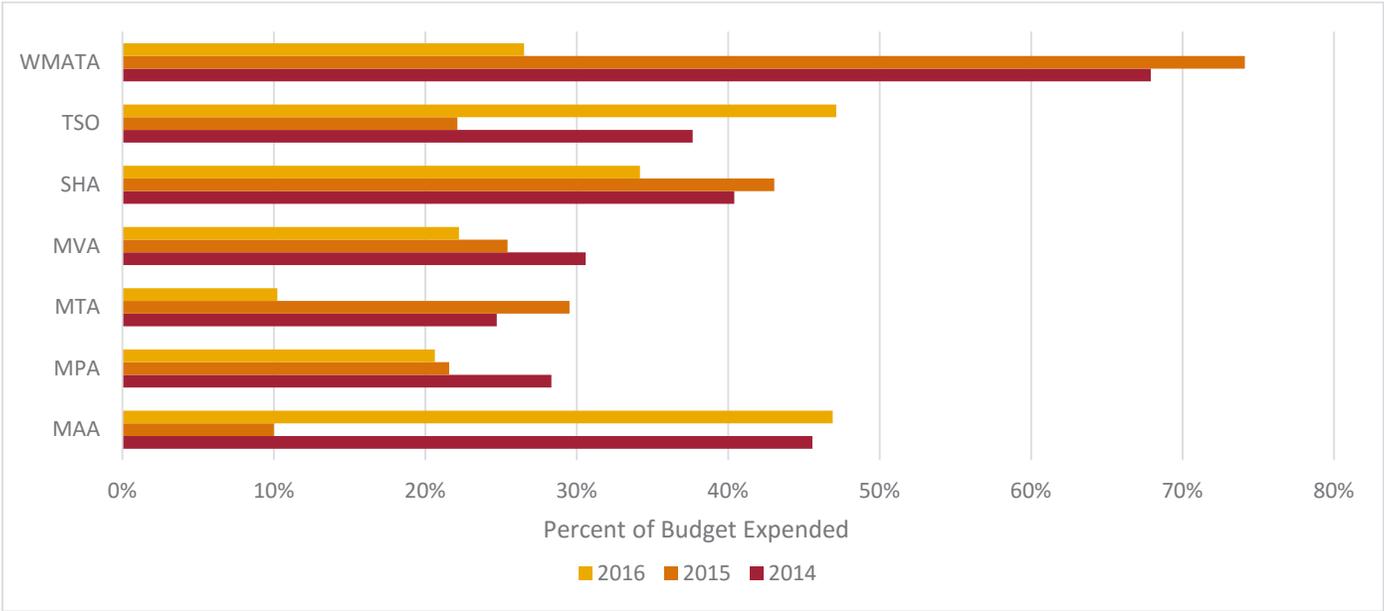
At mid-year FY 2016, MDOT's capital program spending rate is lagging behind all previous years used as the benchmark. The five-year average is 37% of the appropriation being spent at mid-year. MDOT's current rate is only 27%.

**5 YR Capital Program Expenditure Rate Trend Line
State & Federal Funding**



PERFORMANCE MEASURE 2.1 Percent Capital Dollars Spent as Programmed

3-Year Expenditure Rate By TBU at Mid-Year Mark – State & Federal Funding



MTA and WMATA currently have the lowest spend percentage compared to their five-year averages. Analysis indicates the primary reason for the low rates is due more to the timing of invoice payments being recorded in the quarter rather than a lack of spending.



PERFORMANCE MEASURE 2.1

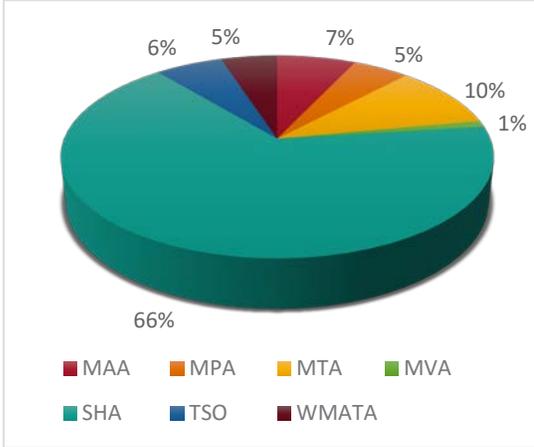
Percent Capital Dollars Spent as Programmed



FY16 Percent Expended vs. 5-Year Average at Q2 Mark

Mode	FY2016	5 Year Average
MAA	46%	54%
MPA	21%	24%
MTA	10%	27%
MVA	21%	22%
SHA	34%	41%
TSO	46%	22%
WMATA	26%	61%
TOTAL	27%	37%

TBU % of FY 2016 Expenditures to Date



TANGIBLE RESULT DRIVER:

Corey Stottlemeyer
The Secretary's Office (TSO)

PERFORMANCE MEASURE DRIVER:

David Fleming
The Secretary's Office (TSO)

PURPOSE OF MEASURE:

To measure the level of other sources utilized to fund capital projects

FREQUENCY:

Annually

DATA COLLECTION METHODOLOGY:

Track capital projects using 10% or more of other funds

BENCHMARK:

N/A

PERFORMANCE MEASURE 2.2

Percent of Projects Leveraging Other Funding Sources

The purpose of this measure is to track and highlight opportunities to leverage Transportation Trust Fund (TTF) dollars with local and private dollars. Projects included under this measure involve at least 10% of the cost being covered by partners. Information will be presented in two values: percent of projects and percent of additional dollars contributed from partners.

FY 2016 – FY 2021 Consolidated Transportation Program Projects using 10% 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%

Use Resources Wisely



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

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% Engaged employees

50.8% not engaged

17.2% 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.

MDOT's TBUs acknowledge the importance of employee engagement initiatives. Recent practices elicit workforce feedback through the use of employee surveys. Table 1.1 (MDOT Employee Surveys at a Glance) shows an overview of these efforts. Throughout the TBUs, fluctuations in staff and financial limitations in recent years have been noted as a source of hardship for employee engagement efforts.

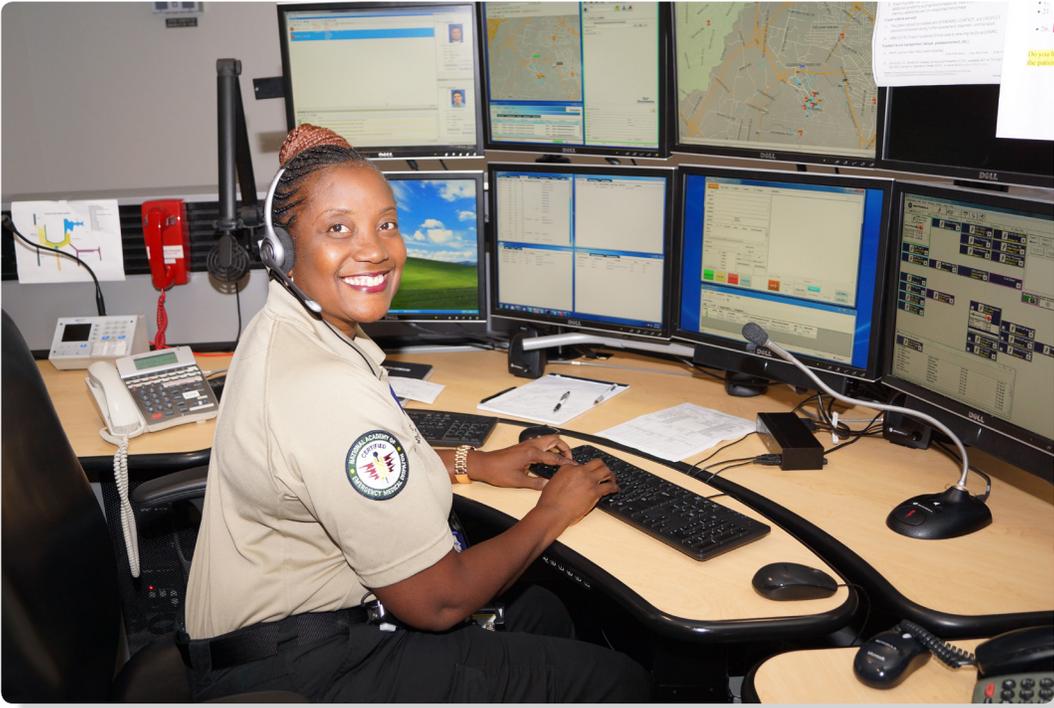
Combining talent, effort and resources under one, comprehensive agency-wide survey would allow MDOT to ensure a systematic and consistent approach to employee engagement while avoiding overlaps and minimizing expense. By partnering with an outside entity to administer the survey, MDOT can:

- Ease employee concerns regarding anonymity;
- Provide survey access across multiple platforms and devices;
- Ensure all TBUs can actively monitor engagement activities with the same level of resources and effectiveness;
- Analyze results quickly with minimal impact to internal personnel resources, and;
- Focus internal staff on developing best practices and implementing new initiatives aimed at increasing employee satisfaction, productivity and retention.

PERFORMANCE MEASURE 2.3 Employee Engagement

Table 1.1 MDOT Employee Surveys at a Glance

	TSO	SHA	MPA	MVA	MTA	MAA	MDTA
Last Survey	N/A	Oct 2015	2006	April 2015	July 2012	Nov 2015	Feb 2015
Method	N/A	Intranet application	Not available	Survey Monkey	Consultant	Consultant	Survey Monkey
Summary Results Available	N/A	Yes	No	Yes	Yes	Yes	Yes
2016 Plan	N/A	No	No	Yes Spring 2016	No	Yes TBD	Yes Feb. 2016



TANGIBLE RESULT DRIVER:

Corey Stottleyer
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).

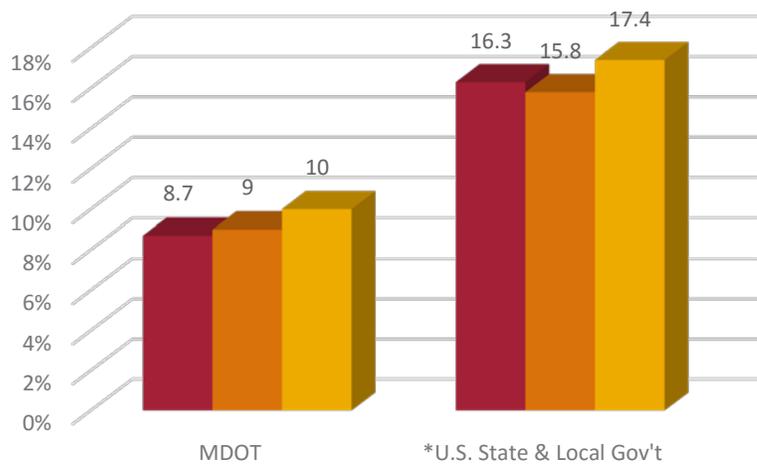
NATIONAL BENCHMARK:

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, 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 Secretary's Office (TSO) provided the total number of employees and total number of separations for each Business Unit in FY2013, FY2014 and FY2015. The U.S. Bureau of Labor Statistics' Job Opening and Labor Turnover Survey (JOLTS) provides the employee turnover rate for U.S. state and local government (excluding education) during the same time period. As shown in the chart below, the MDOT annual employee turnover rate has increased slightly over the last three fiscal years while still remaining consistently below the national turnover average for state and local governments.

Annual Turnover Comparison



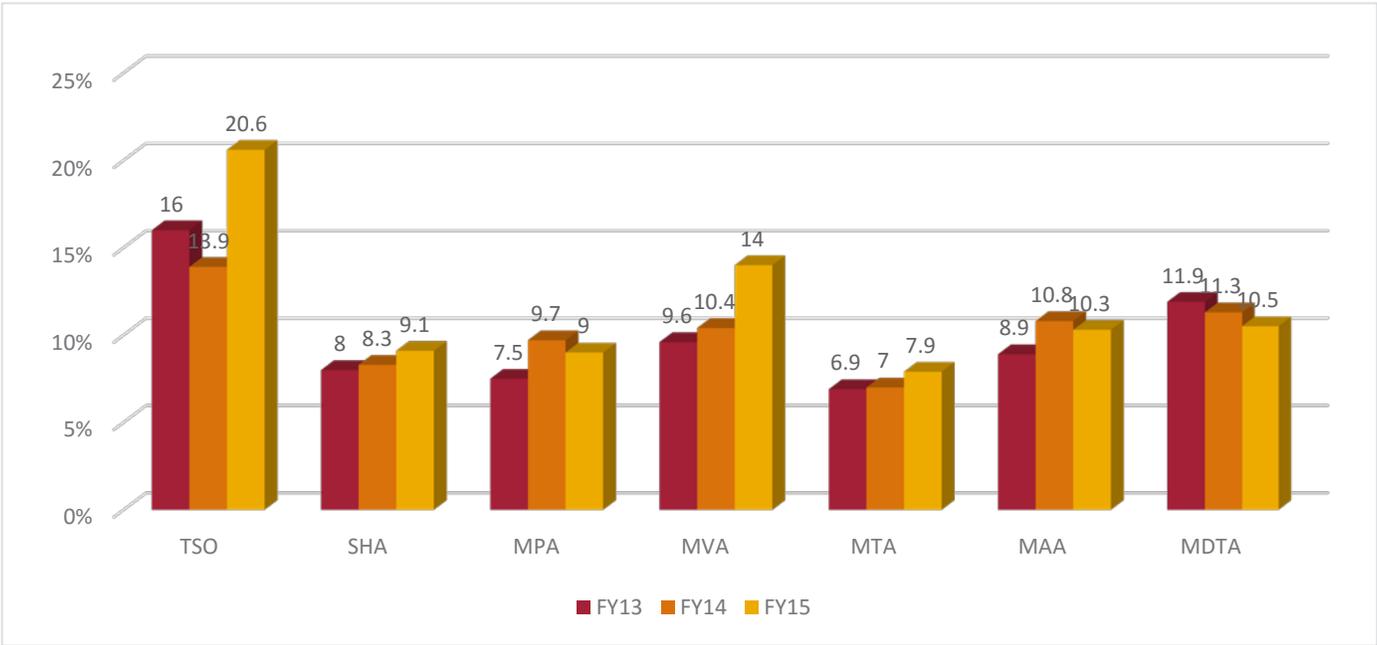
*Information retrieved from the U.S. Dept. of Labor, Bureau of Labor Statistics for total employee separations in U.S. State and Local Government, excluding education (not seasonally adjusted)

■ FY2013 ■ FY2014 ■ FY2015

PERFORMANCE MEASURE 2.4
Employee Turnover Rate

The next table illustrates employee turnover rates for each MDOT TBU over the last three fiscal years. Most notably, a steady increase in employee turnover is indicated for SHA, MVA, and MTA while a steady decline in employee turnover is indicated for MDTA.

MDOT Turnover Rate by Business Unit



Whether employee separations are due to business necessity or natural attrition, monitoring turnover rates can provide a wealth of information about an organization’s workforce and its position in the industry. Understanding the reasons employees leave and the obstacles they face while employed at MDOT is a key element in structuring business practices to develop and retain a healthy workforce. To do so, an analysis of the separation reason code entered into the employee personnel record via HRIS can be conducted on a regular basis. Monitoring the number of separations for each reason code may lead to identifying trends throughout the agency. Employee exit interviews can also provide constructive information for TBUs. A review of current exit interview practices would be greatly beneficial in identifying best practices and areas for improvement.

TANGIBLE RESULT DRIVER

Corey Stottley
TSO

PERFORMANCE MEASURE DRIVER:

Deborah Hammel
SHA

PURPOSE OF MEASURE:

Demonstrates efficient use of available PINs and identifies 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 HR Directors

NATIONAL BENCHMARK:

N/A

PERFORMANCE MEASURE 2.5

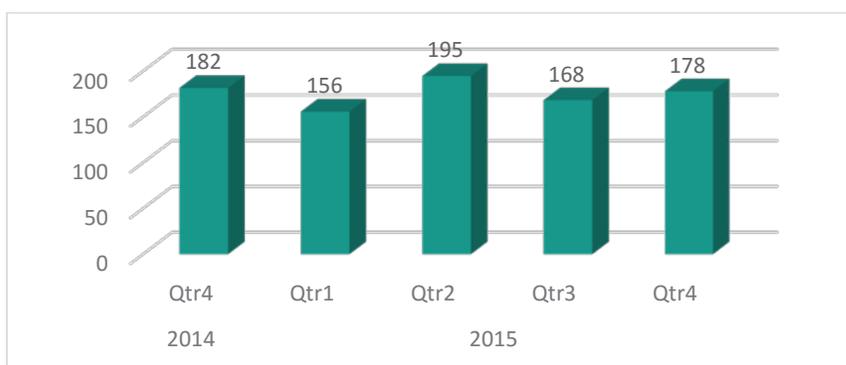
Time to Fill Vacancies

MDOT has set a goal of filling vacant positions within 180 days. The average time to fill a position for the period October 1, 2014-December 31, 2015 was 174 days. However, actual time to fill positions ranges from a low of one day to a high of 959 days during this period.

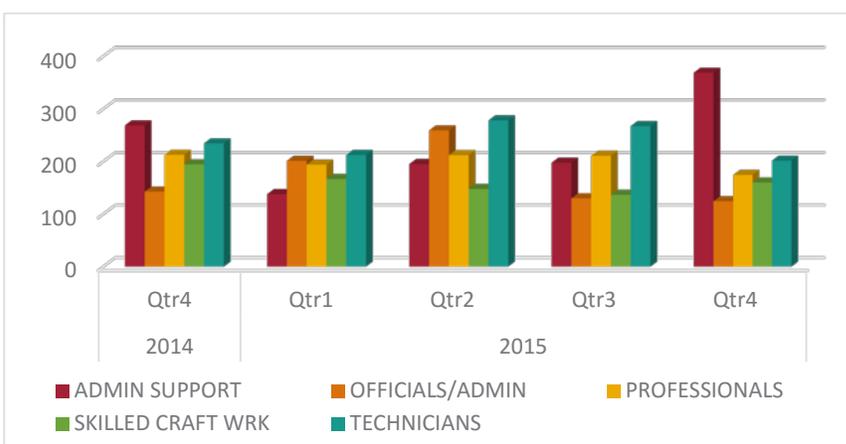
Impacts of time taken to fill vacancies include a multiple-step, labor-intensive recruitment process, salary competition (especially for highly-technical positions) and the hiring managers' engagement in the process.

The first chart below shows the average number of days to fill all vacancies MDOT-wide for the period October 1, 2014 through December 31, 2015. The five- quarter average is 174 days versus a goal of 180 days.

MDOT-Wide Average Time to Fill Vacancies



MDOT-Wide Average Days to Fill Vacancies by Job Family



TANGIBLE RESULT DRIVER:

Corey Stottlemeyer

The Secretary's Office (TSO)

PERFORMANCE MEASURE DRIVER:

Bill Bertrand

State Highway Administration (SHA)

PURPOSE OF MEASURE:

Calculate the percentage of Fixed Asset Units identified during the Annual Physical Inventory of Fixed Assets

FREQUENCY:

Annually

DATA COLLECTION METHODOLOGY:

Data will be collected when TBUs 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 TBUs. This performance measure reports the percentage of fixed asset units identified by each TBU during its annual fixed asset physical inventories verses the number of fixed assets it owns.

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

Results will be presented in a bar chart that displays data for the given year by TBU. Percentages will be calculated as shown below:

$$\frac{\text{Number of Fixed Asset Units Identified}}{\text{Number of Fixed Asset Units Recorded in the Perpetual Inventory}}$$

TANGIBLE RESULT DRIVER:

Corey Stottleyer

The Secretary's Office (TSO)

PERFORMANCE MEASURE DRIVER:

Tony Moore

Maryland Port Administration (MPA)

PURPOSE OF MEASURE:

Provide an overview which shows how Transportation Business Units monitor asset management activities

FREQUENCY:

Semi-Annually

DATA COLLECTION METHODOLOGY:

Asset inspection condition surveys and asset life-cycle cost analysis

NATIONAL BENCHMARK:

N/A

PERFORMANCE MEASURE 2.7

Managing Capital Assets

A state of good repair results from the strategic application of transportation asset management concepts. Each Transportation Business Unit maintain its physical assets according to policies which minimize asset life-cycle cost while avoiding negative impacts on the delivery of transit services.

The Transportation Business Units manage different categories of assets in the delivery of transportation services to its customers. Selected performance measures are collected and mathematically weighted to create a TBU specific asset management index. This index makes it possible to compare the outcomes of asset management programs implemented by all TBUs.

PERFORMANCE MEASURE 2.7 Managing Capital Assets

INSPECTIONS:

The TBU asset condition must be determined before the specific TBU asset management regimen can be implemented. Physical inspections are the primary technique used to assess asset conditions. Asset inspection can occur annually or over a series of years based on the asset life and use.

Below are examples of the type of inspections conducted by the TBUs:

- SHA – # of years of service life, # miles of pavement inspected, # of inspection defects
- MTA – # of buses inspected, # of safety inspection failures
- MAA – # airside and landside pavement inspections, # of landside and terminal facility inspections # of inspection improvements initiated
- MVA – # annual building inspections
- MDTA – # priority 1 defect inspections, % of priority 1 defects assigned to contractors, % of priority 1 defects assigned to task orders
- MPA – # of pile inspections per year, # of manhole inspections per year, pile inspection interval

Selected TBU inspections are included in the TBU's Asset Management Index. The individual inspection index is calculated by dividing the actual inspection by the number of estimated asset category annual inspections. (As an example, SHA has 15 actual service life inspections ÷ 20 annual estimated inspection × 100 equals an index number of 75). All of the SHA indexes are added together and compared to similar calculated indexes for the remaining TBUs.

ASSET CONDITION:

During inspection an evaluation is made to quantify the asset condition. The evaluation is used to determine which assets are good and need minimal remedies; which assets are fair and are in need of some attention; and which assets are in poor condition and either will be abandoned or require a substantial investment.

The asset condition index shows what percentage of the TBU assets are in good, fair or poor condition. This index can be used to measure the change in asset condition between annual reporting periods.

TANGIBLE RESULT DRIVER:

Corey Stottleyer
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

FREQUENCY:

Quarterly

DATA COLLECTION METHODOLOGY:

Quarterly Focus reports MDOT wide showing all active BPO for the quarter

NATIONAL BENCHMARK:

N/A

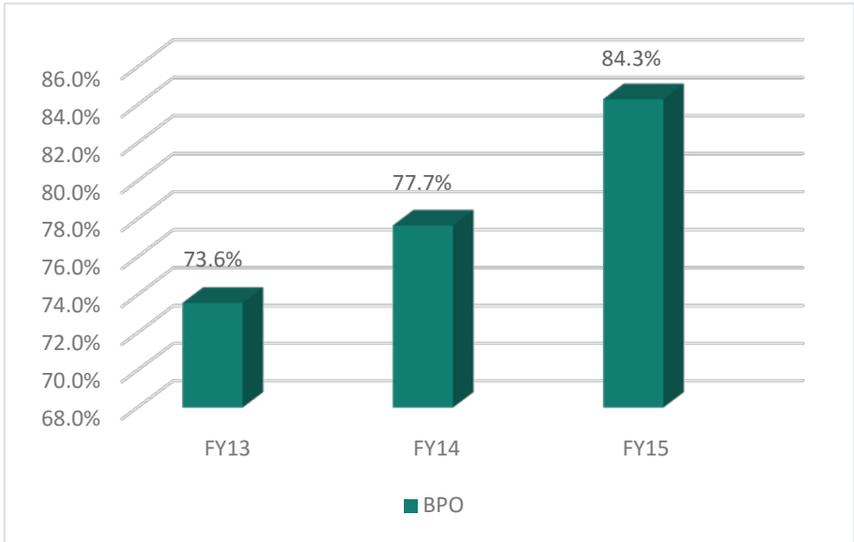
PERFORMANCE MEASURE 2.8

Percent of Procurement on Time, on Budget

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 in line with the project and budget. Over time, managers will do a better job at setting timelines and budgets for projects. Managers will report the project status accurately and timely so that problems are identified early and corrective action taken swiftly.

It is difficult to accurately define the time line or budget for projects primarily because of the unknowns associated with projects in general. As such, if the problem is identified early and a change order is executed and approved by all parties before the deadline, the timelines and/or budgets can be adjusted accordingly.

Percent of Blanket Purchase Orders (BPO) Expired



TANGIBLE RESULT DRIVER:

Corey Stottlemyer
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 change orders on procurement contracts

FREQUENCY:

Quarterly

DATA COLLECTION METHODOLOGY:

MDOT wide showing active unanticipated change orders equal to or greater than \$1 million for the quarter

NATIONAL BENCHMARK:

N/A

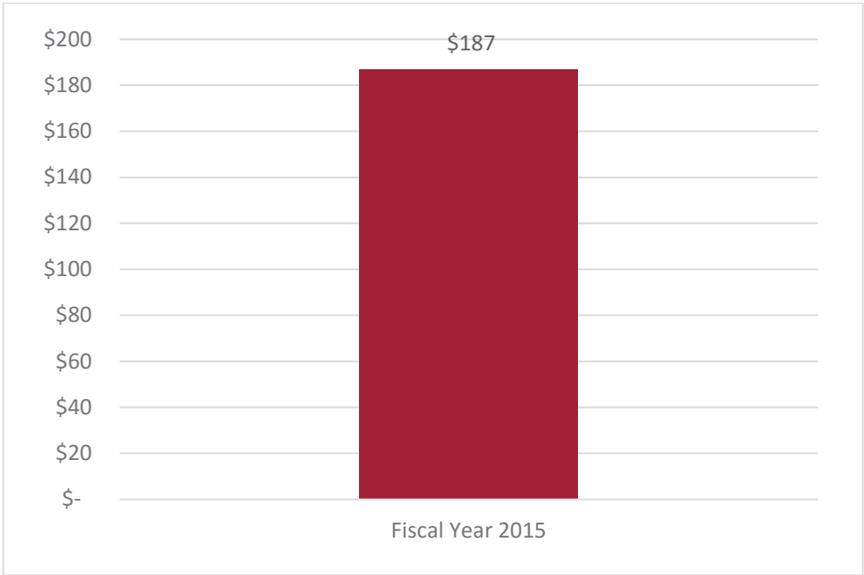
PERFORMANCE MEASURE 2.9

Percent and Value of Change Orders (CO) on Procurements

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 change orders. In addition, it will encourage project staff to use timely and accurate reports that managers can analyze to examine trends in unanticipated change orders.

The amount and value of change orders will vary from one Transportation Business Unit 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 change orders than building maintenance contracts. Similarly, an IT development contract may require more change orders than an IT maintenance contract.

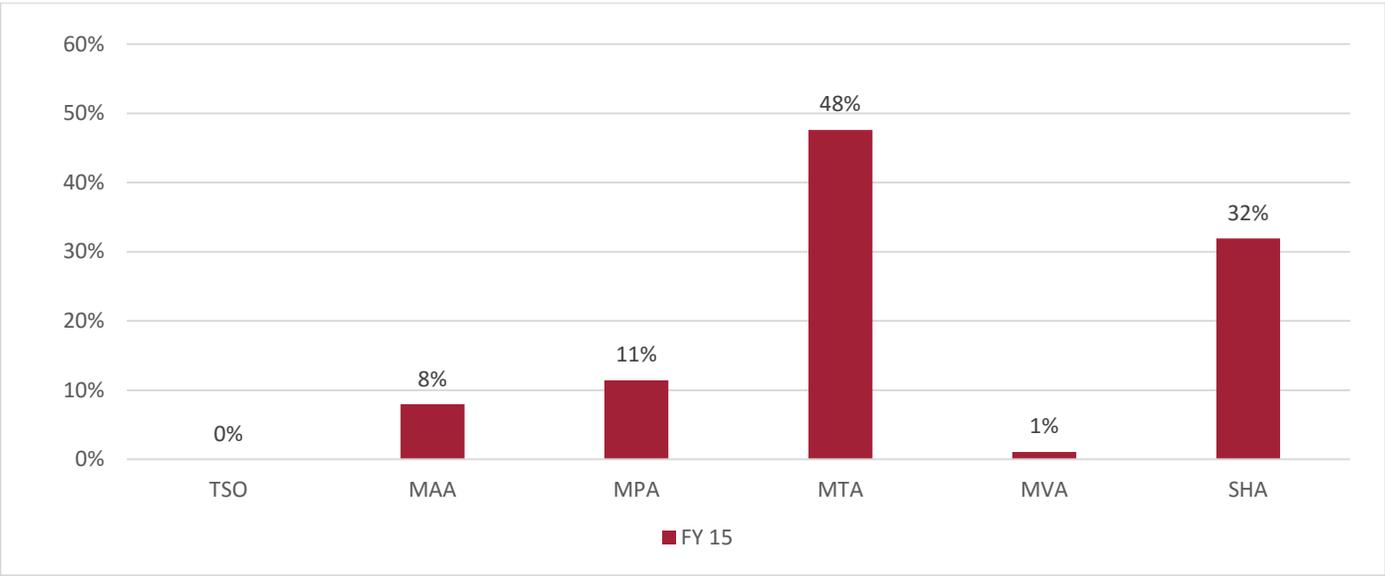
Value of Unanticipated Contract Modifications in Millions of Dollars



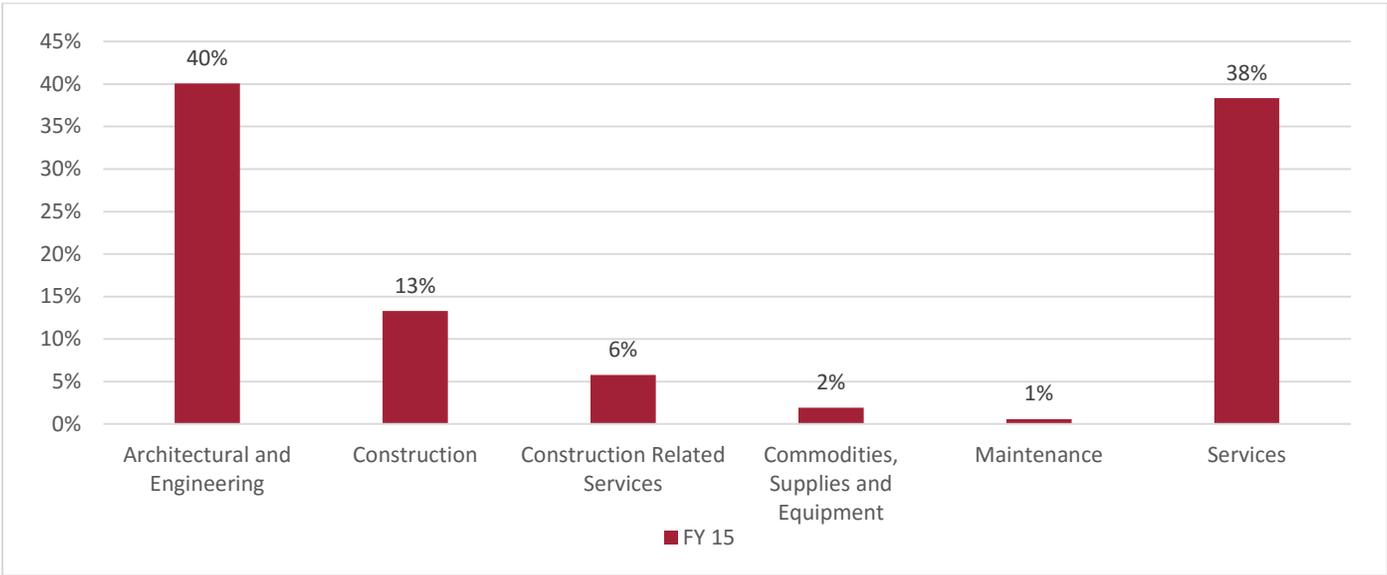
PERFORMANCE MEASURE 2.9

Percent and Value of Change Orders (CO) on Procurements

Percent of Unanticipated Contract Modification Dollars Spent by TBU in Fiscal Year 2015



Percent of Unanticipated Contract Modification Dollars Spent by Category of Work in FY 2015



TANGIBLE RESULT DRIVER:

Corey Stottleyer
The Secretary's Office (TSO)

PERFORMANCE MEASURE DRIVER:

Patrick Bradley
*Maryland Aviation Administration
(MAA)*

PURPOSE OF MEASURE:

To track the number of Internal Audit Findings and the number of Repeat Internal Audit Findings

FREQUENCY:

Annually

DATA COLLECTION METHODOLOGY:

TBU Audit databases for FY13, FY14 and FY15

NATIONAL BENCHMARK:

N/A

PERFORMANCE MEASURE 2.11

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

The purpose of this performance measure is to track the number of Internal Audit Findings and the number of Repeat Internal Audit Findings in FY2013, FY2014 and FY2015. 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 2013-2015, there were 451 total Internal Findings.

The number of Repeat Internal Audit Findings totaled 19 in FY 2013 – FY2015, dealing with periodic inventory reviews of sensitive items (four findings), promotional expense documentation and authorizations (five findings) and materials and supplies management (ten findings). The materials and supplies management findings include items such 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.

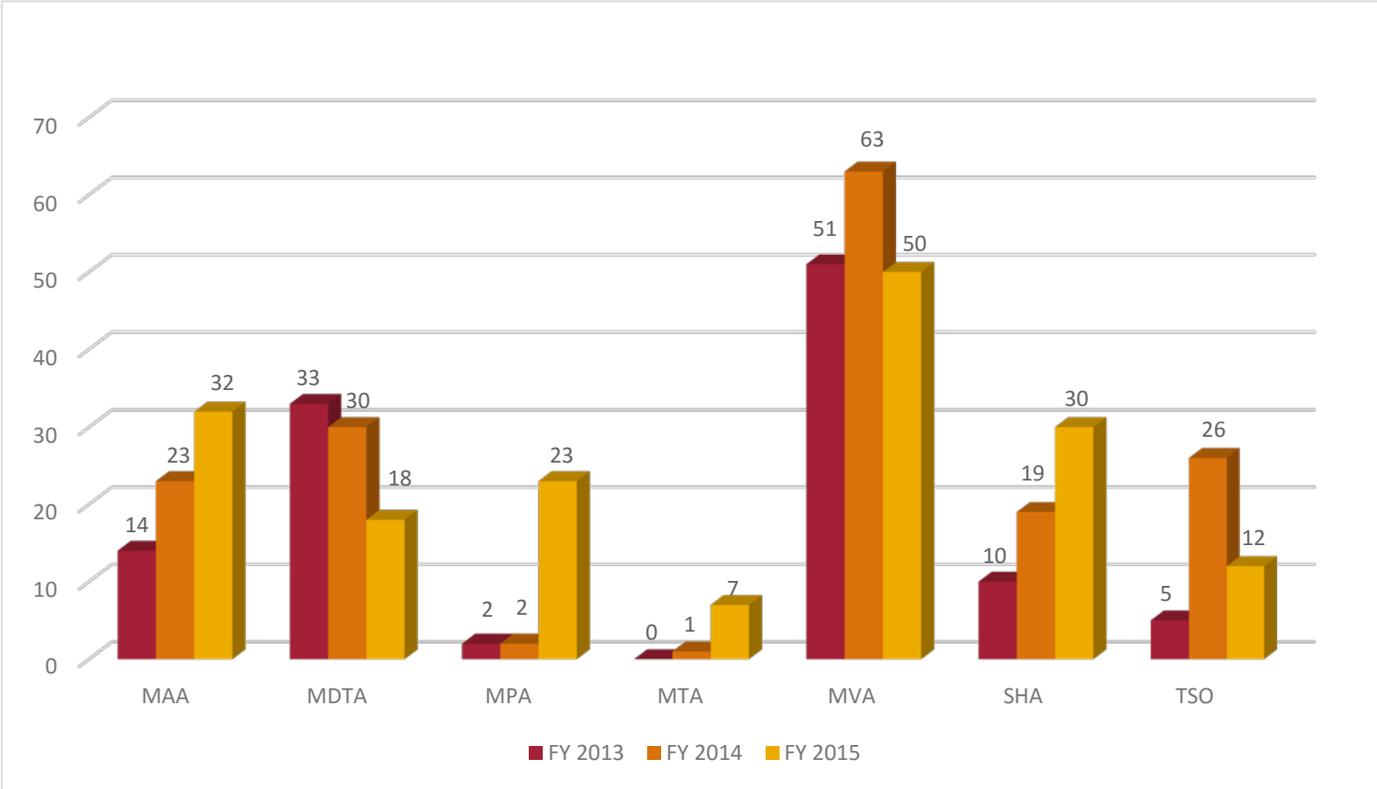
Six of nineteen Repeat Internal Audit Findings have been resolved.

Of the remaining unresolved 13 Repeat Internal Audit Findings, 12 are made of the same six findings in two different audit years and one additional repeat finding.

PERFORMANCE MEASURE 2.11

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

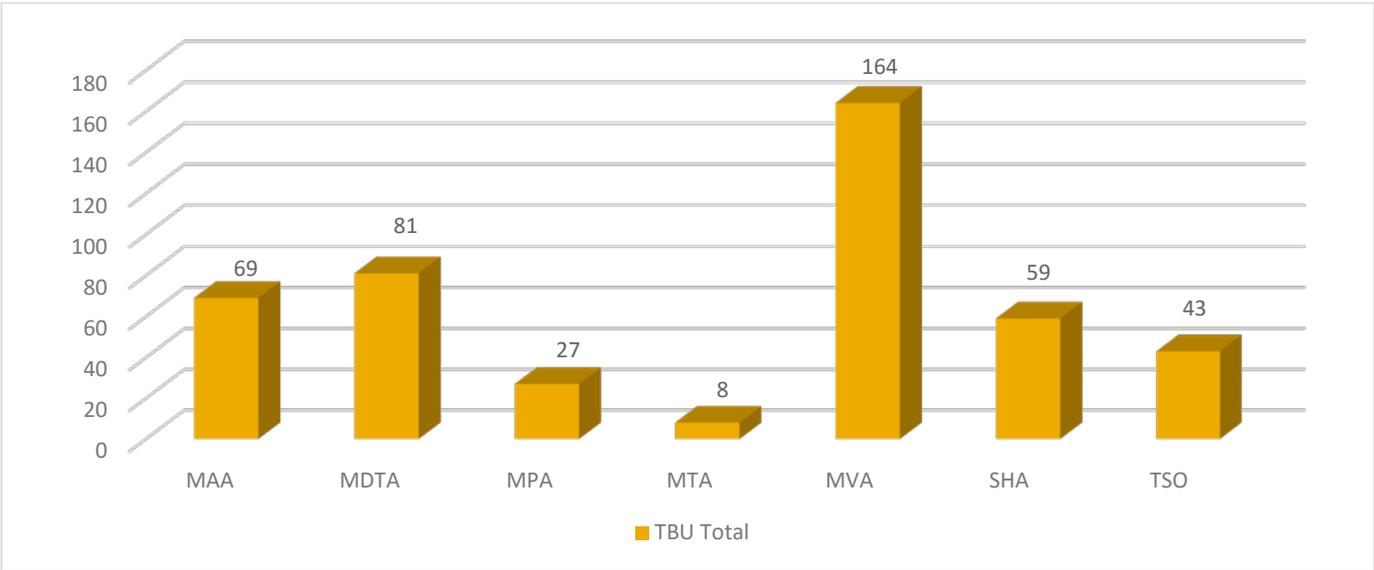
Number of Internal Audit Findings



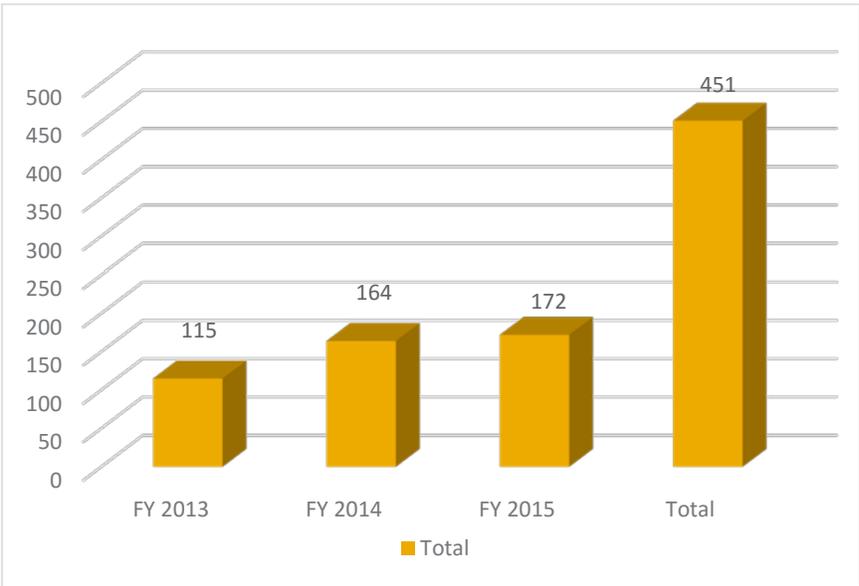
PERFORMANCE MEASURE 2.11

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

Number of Total Internal Audit Findings by TBU for FY13-15



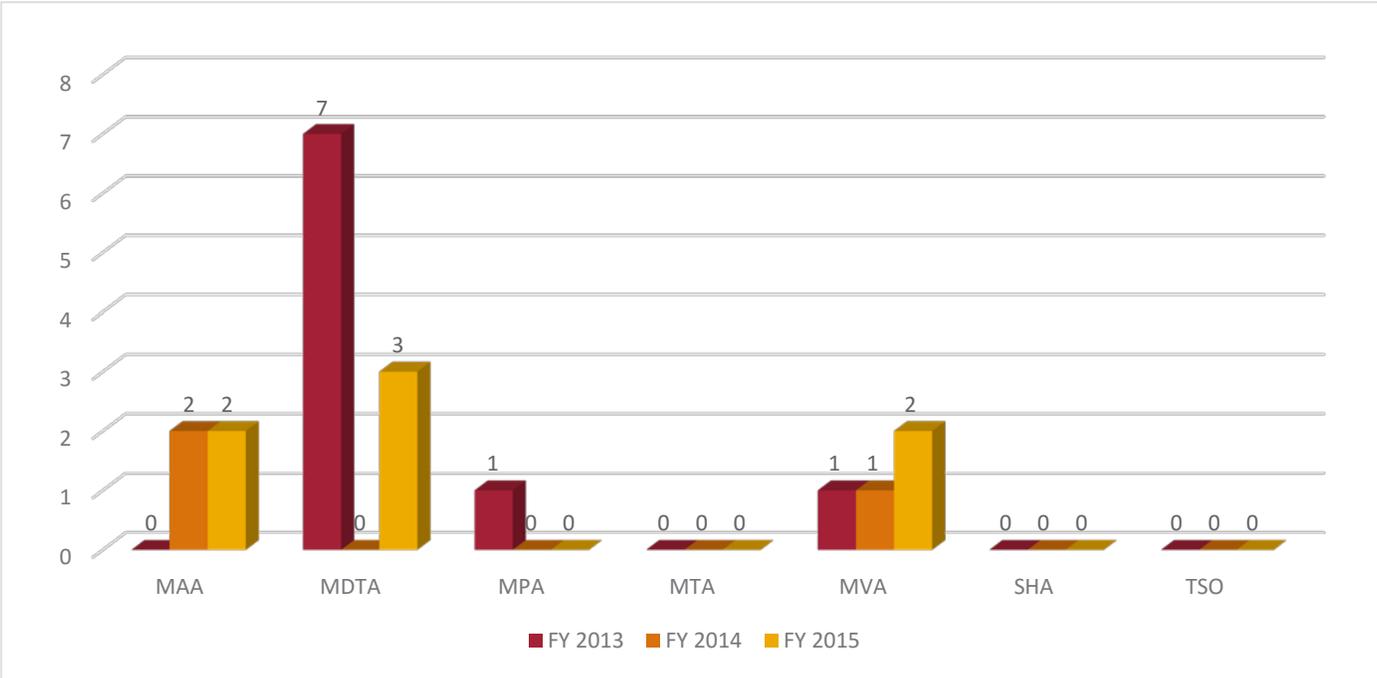
Trend in Total Internal Audit Findings



PERFORMANCE MEASURE 2.11

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

Number of Internal Audit Repeat Findings



TANGIBLE RESULT DRIVER:

Corey Stottleyer
Maryland Department of
Transportation (MDOT)

PERFORMANCE MEASURE DRIVER:

Patrick Bradley
Maryland Aviation Administration
(MAA)

PURPOSE OF MEASURE:

To track the number of
Legislative Repeat Audit
Findings

FREQUENCY:

Annually

DATA COLLECTION METHODOLOGY:

TBU Audit databases for FY 13,
FY14 and FY15

NATIONAL BENCHMARK:

Zero Legislative Repeat Audit
Findings

PERFORMANCE MEASURE 2.12

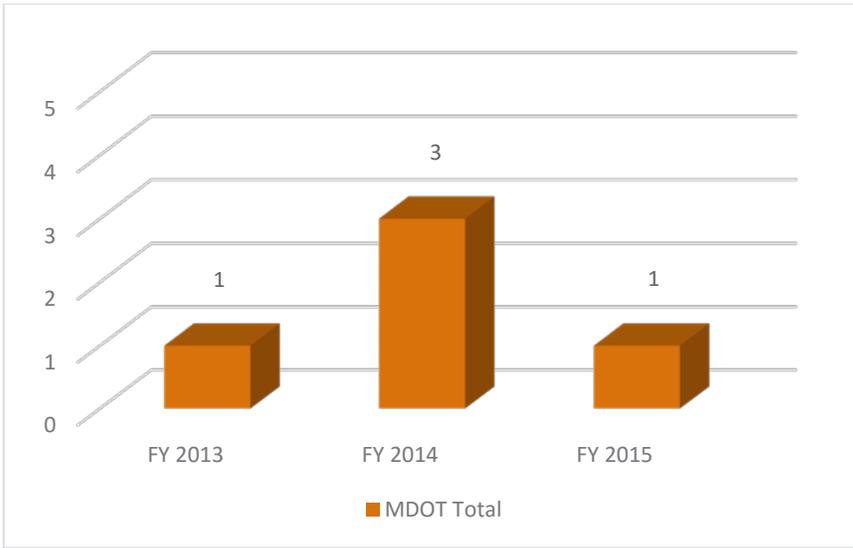
Number of Legislative Repeat Audit Findings

The purpose of this performance measure is to track the number of Legislative Repeat Audit Findings in FY2013, FY2014 and FY2015. 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, access controls to critical database security logs, files and transactions lacking, a lack of controls over critical virtual servers, and the process for determining the propriety of A&E contract billings not being comprehensive.

All five Legislative Repeat Audit Findings have been resolved.

Number of Legislative Repeat Audits



Use Resources Wisely

