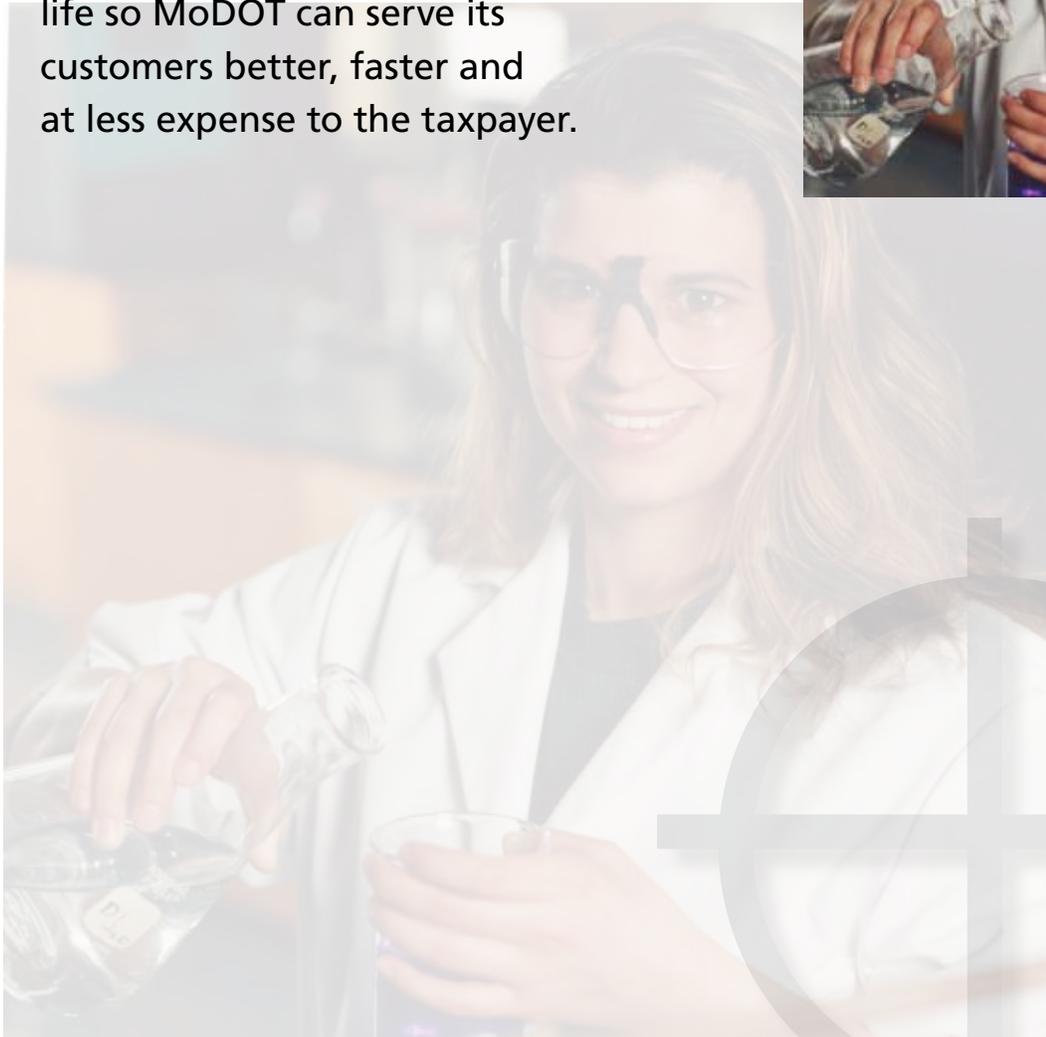


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# Innovative Transportation Solutions

*Tangible Result Driver – Mara Campbell,  
Organizational Results Director*

MoDOT values innovation. The department empowers employees and seeks input from stakeholders to generate innovative ideas. Collaboration with staff, academia and industry make unique concepts come to life so MoDOT can serve its customers better, faster and at less expense to the taxpayer.



## Innovative Transportation Solutions

### *Number and percent of research recommendations implemented*

**Result Driver:** Mara Campbell, Organizational Results Director

**Measurement Driver:** Ernie Perry, Organizational Performance Administrator

**Purpose of the Measure:**

This measure tracks the number of completed research projects, and the percentage of implemented research recommendations, be they ideas, methods, or tools that MoDOT implements as a result of research efforts. MoDOT realizes the importance of supporting innovation and research and is driven to provide the department with the latest ideas, technologies, and solutions needed to deliver the most efficient, safe, and economical transportation system.

**Measurement and Data Collection:**

Research projects implemented include any new ideas, methods, policies, processes, standards, equipment or tools introduced for the purpose of improving the department's operation, services, or products. For this measure, research projects are categorized into two areas: 1) Information and policy guidance research, and 2) Technical, product-focused research. Both categories are reported as the number of completed activities and percent of recommendations implemented. Examples of information and policy guidance research products include determining the economic impact of highway construction or smoother pavements, or development of freight planning agendas. Technical, product-focused research projects examples include developing passing lane alternatives, or concrete curing specifications.

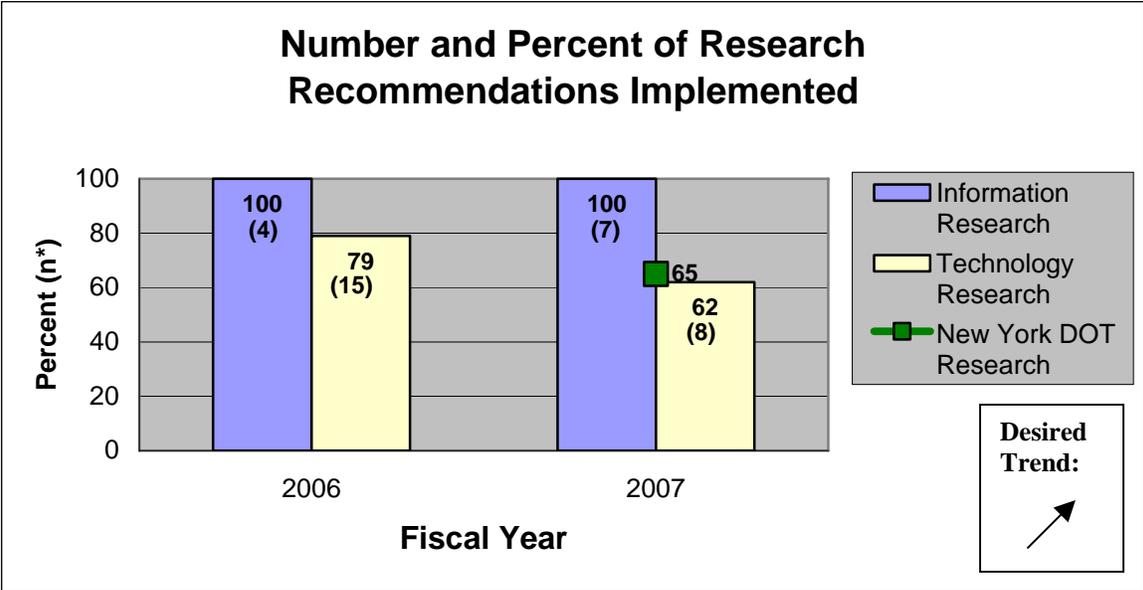
For these research products, the definition of implemented includes all solutions that have been or are being applied. "Percent of research recommendations implemented" is determined by dividing the number of research projects producing implementable results by the total number of research projects completed during the reporting period. While many ideas and technologies are pursued through research and related efforts, not all solutions can be implemented by MoDOT.

For both categories of research projects, the information and policy oriented, as well as the technical, MoDOT's elevated emphasis on strategically focused research and its implementation should result in better and more economical transportation products and services delivered. Data for this measure is collected and analyzed every six months with updates in the January and July Tracker editions.

**Improvement Status:**

During fiscal year 2007, MoDOT's research program completed 20 total research projects. Seven projects are categorized as information and policy guidance reports and are considered implemented. Thirteen projects are categorized as technical, product-focused reports. Of the 13 technical reports, eight reports have produced implemented results within the department. This represents a 62 percent implementation rate for the technical report recommendations.

MoDOT's implementation rate for technical projects lags slightly behind the New York DOT implementation rate comparison of 65 percent. MoDOT's Organizational Results continues to aggressively pursue research and innovations focused on addressing pertinent department needs that are closely tied to the 18 Tangible Results. This focus will lead to more usable solutions and better value. While not all research results or solutions can be implemented, MoDOT recognizes the importance and value of conducting a research program driven to make a difference.



\*(n) Indicates the number of research recommendations implemented

# Innovative Transportation Solutions

## *Number of external awards received*

**Result Driver:** Mara Campbell, Organizational Results Director

**Measurement Driver:** Ernie Perry, Organizational Performance Administrator

**Purpose of the Measure:**

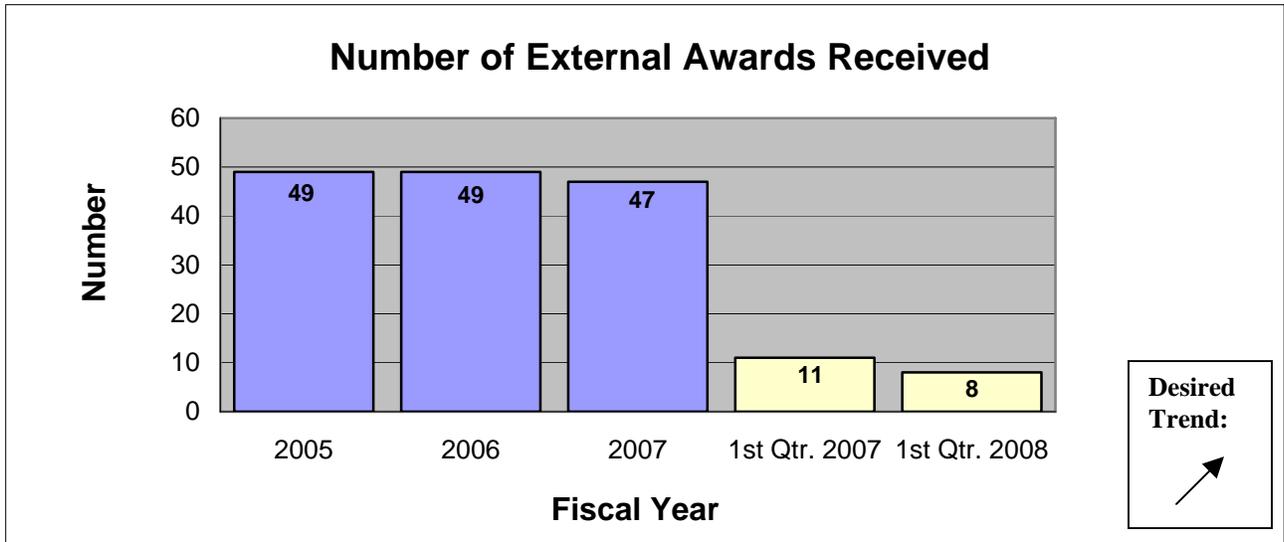
This measure tracks the number of external awards received by the department. These awards display the department’s dedication and efforts towards efficiency, innovation and quality throughout the organization. This information enables the department to measure progress and encourage further participation in award programs. It also provides opportunities for the department to increase public awareness of department activities.

**Measurement and Data Collection:**

Each district and division office tracks the awards presented to the department by external organizations. This includes all awards presented to individuals, teams, districts, divisions and MoDOT as a whole. Data for this measure is updated quarterly.

**Improvement Status:**

During the first quarter fiscal year 2008, MoDOT received eight awards. This is three less than the number received in the same quarter last year. A highlight from first quarter 2008 award recipients is the AASHTO Excellence Pathfinder Award won by MoDOT’s Risk Management Safety & Health Team. This statewide team dramatically reduced the number of lost workdays per year (see page 15e). MoDOT continues to enter various competitions to have their work judged against the efforts of other organizations.



# Innovative Transportation Solutions

## Percent of best practices by implementation status

**Result Driver:** Mara Campbell, Organizational Results Director  
**Measurement Driver:** Bill Stone, Organizational Performance Administrator

**Purpose of the Measure:**

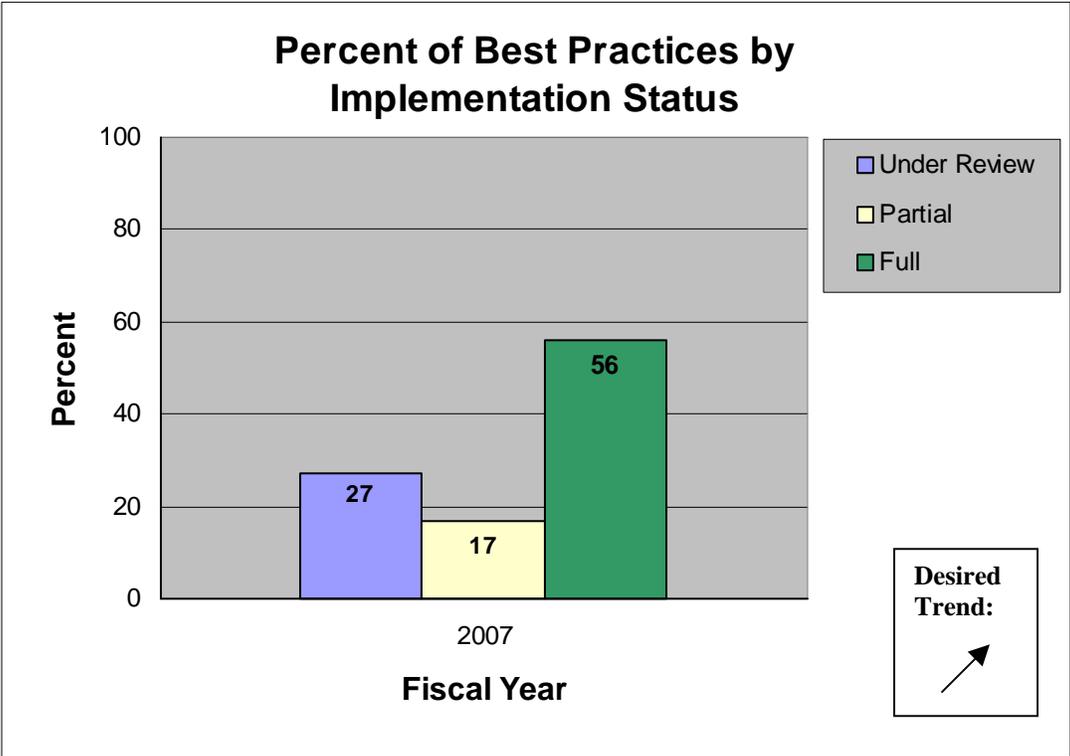
This measure tracks the percent of best practices implemented within MoDOT. Best practices show how MoDOT employees are applying innovation to improve daily operations.

**Measurement and Data Collection:**

MoDOT uses a simple five-question submission form for employees to share how they have improved the ways of accomplishing daily work. Submissions are evaluated and verified by managerial and technical staff. Those submissions approved as best practices are shared with MoDOT employees through online and printed publications. Every six months, division and district managers report best practice implementation status. This measure will have updates in the July and January Tracker editions.

**Improvement Status:**

Since the statewide pilot launch of MoDOT’s Solutions at Work in November 2006, 16 best practices have been verified and shared with department employees. Two of those best practices have been shared within the past thirty days and are not included in this quarter’s data. Overall 56 percent of the best practices have been fully implemented with 17 percent partially implemented and 27 percent still under review. With 73 percent of best practices partially or fully implemented, MoDOT is aggressively taking advantage of best practices. The 27 percent still under review is partially due to the need to customize some best practices to better fit operational or regional needs.



# Innovative Transportation Solutions

## *Number of dollars saved by increasing MoDOT's productivity*

**Result Driver:** Mara Campbell, Organizational Results Director

**Measurement Driver:** Jen Harper, Organizational Performance Engineer

**Purpose of the Measure:**

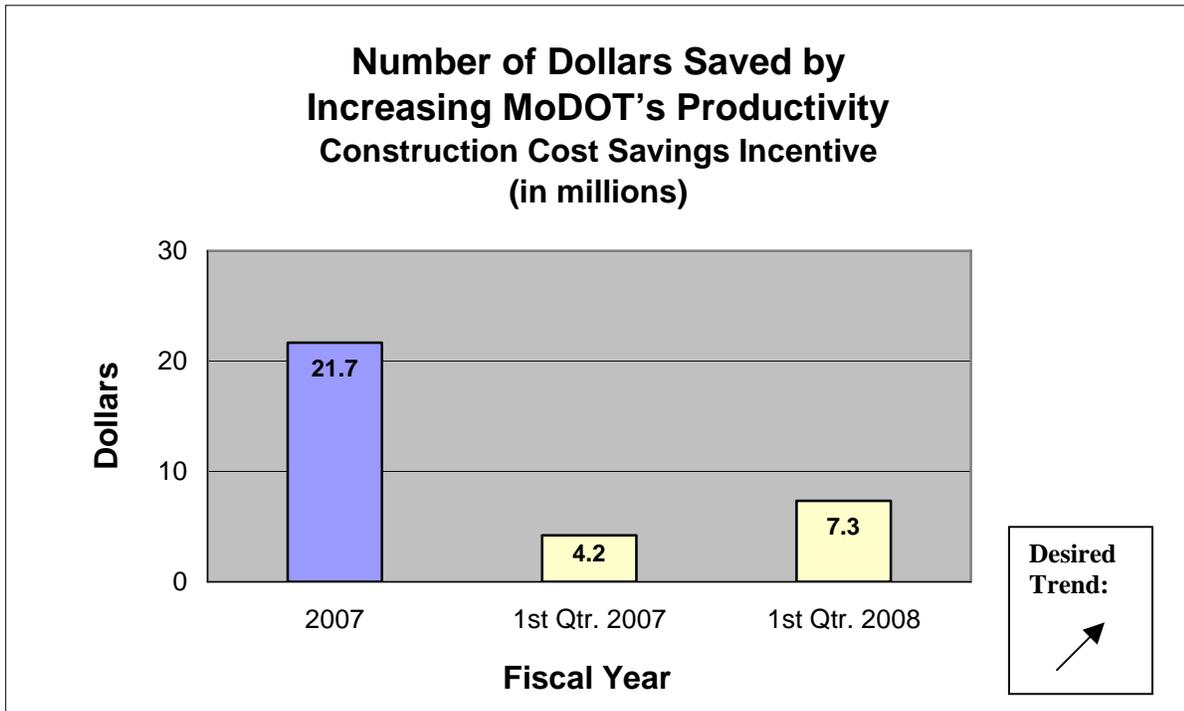
This measure enables MoDOT to assess its productivity by tracking cost savings indicative of practical design, value engineering, Performance Plus and good engineering judgment.

**Measurement and Data Collection:**

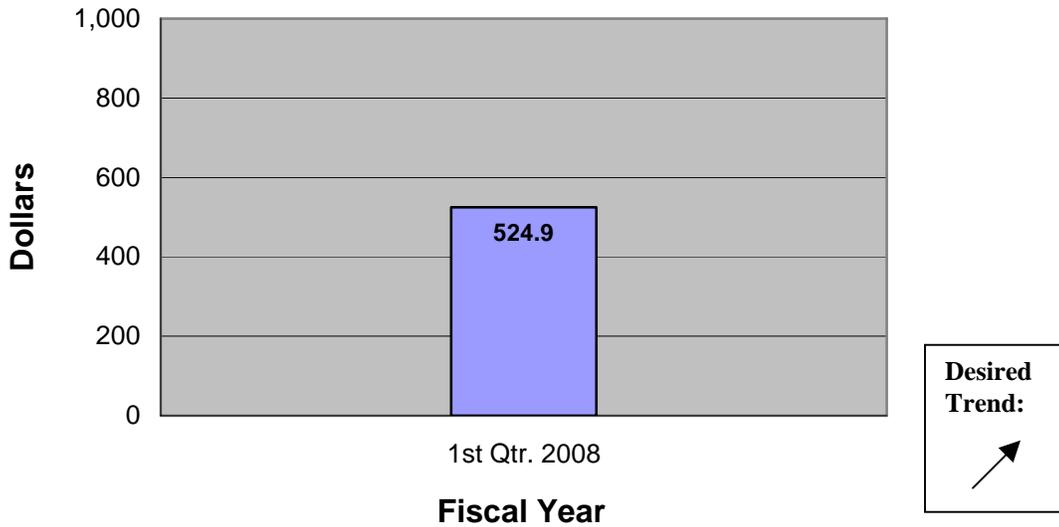
The cost-saving methods used by MoDOT are so broad that this measure focuses on savings measured through the Performance Plus program. In addition to the Construction Cost Savings, the Performance Plus program has added two more incentives (Injury Reduction and Project Scoping and Estimating) in fiscal year 2008. Each of the incentives is audited either quarterly or semiannually. In these audits, the number of dollars saved as well as the amount paid out to eligible employees is calculated for each of the incentives. Note that in the Construction Cost Savings, the savings are calculated based only on those project offices that qualified for the incentive while in the Project Scoping and Estimating and Injury Reduction are based on all of the districts whether or not they qualified. For each of the incentives, the amount paid out is then subtracted from the amount saved to get a final savings. These savings are reported in the fiscal year that the incentives are paid out to the employees. Data for this measure is updated quarterly.

**Improvement Status:**

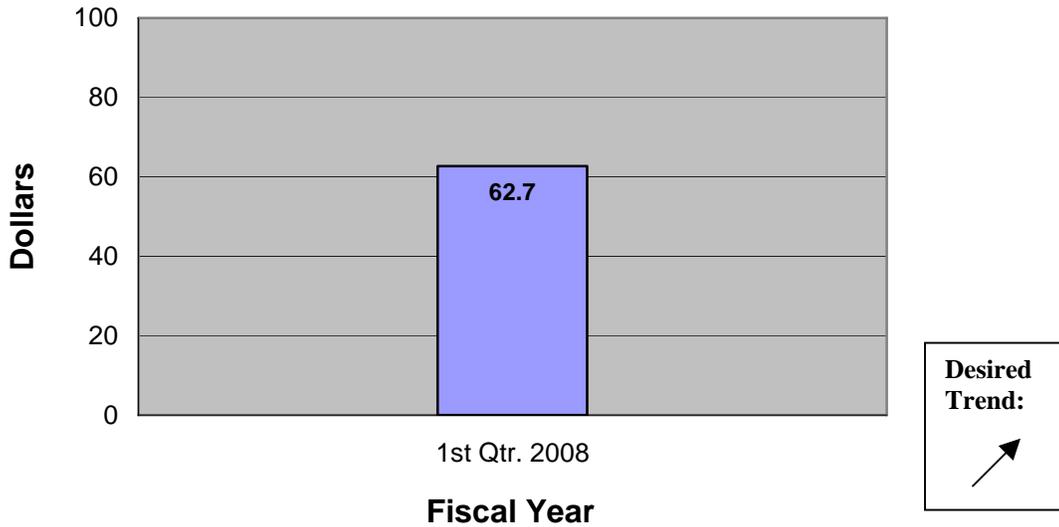
During fiscal year 2007, MoDOT saved \$21,664,344 measured by Construction Cost Savings. So far in FY 2008, MoDOT has saved \$7,343,466 for that incentive. In FY 2008, MoDOT has calculated a savings of \$524,911 through Injury Reduction and \$62,661,467 through Project Scoping and Estimating.



**Number of Dollars Saved by  
Increasing MoDOT's Productivity  
Injury Reduction Incentive  
(in thousands)**



**Number of Dollars Saved by  
Increasing MoDOT's Productivity  
Project Scoping & Estimating Incentive  
(in millions)**



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