

# Transportation Performance Management

The Bipartisan Infrastructure Law (BIL) continues the requirements established in Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation (FAST) Act for performance management. These requirements aim to promote the most efficient investment of Federal transportation funds. Performance-based planning ensures that the Pennsylvania Department of Transportation (PennDOT) and the Metropolitan Planning Organizations (MPOs) collectively invest Federal transportation funds efficiently towards achieving national goals. In Pennsylvania, the Rural Planning Organizations (RPOs) follow the same requirements as MPOs.

Transportation Performance Management (TPM) is a strategic approach that uses data to make investment and policy decisions to achieve national performance goals. [23 USC 150\(b\)](#) outlines the national performance goal areas for the Federal-aid program. This statute requires the Federal Highway Administration (FHWA) to establish specific performance measures for the system that address these national goal areas. The regulations for the national performance management measures are found in [23 CFR 490](#).

National Goal Areas	
<b>Safety</b>	<ul style="list-style-type: none"> <li>To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.</li> </ul>
<b>Infrastructure Condition</b>	<ul style="list-style-type: none"> <li>To maintain the highway infrastructure asset system in a state of good repair</li> </ul>
<b>Congestion Reduction</b>	<ul style="list-style-type: none"> <li>To achieve a significant reduction in congestion on the National Highway System</li> </ul>
<b>System Reliability</b>	<ul style="list-style-type: none"> <li>To improve the efficiency of the surface transportation system</li> </ul>
<b>Freight Movement and Economic Vitality</b>	<ul style="list-style-type: none"> <li>To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.</li> </ul>
<b>Environmental Sustainability</b>	<ul style="list-style-type: none"> <li>To enhance the performance of the transportation system while protecting and enhancing the natural environment</li> </ul>
<b>Reduced Project Delivery Delays</b>	<ul style="list-style-type: none"> <li>To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices</li> </ul>

## Performance Based Planning and Programming

Pennsylvania continues to follow a Performance Based Planning and Programming (PBPP) process, with a focus on collaboration between PennDOT, FHWA, and MPOs/RPOs at the county and regional levels. These activities are carried out as part of a cooperative, continuing, and comprehensive (3C) planning process which guides the development of many PBPP documents, including:

- Statewide and Regional Long Range Transportation Plans (L RTPs)
- Twelve-Year Transportation Program (TYP)
- State Transportation Improvement Program (STIP)
- Regional Transportation Improvement Programs (TIPs)
- Transportation Asset Management Plan (TAMP)
- Transit Asset Management (TAM) Plans

- Public Transportation Agency Safety Plans (PTASP)
- Pennsylvania Strategic Highway Safety Plan (SHSP)
- Comprehensive Freight Movement Plan (CFMP)
- Congestion Mitigation and Air Quality (CMAQ) Performance Plan(s)
- Congestion Management Process (CMP)
- Regional Operations Plans (ROPs)

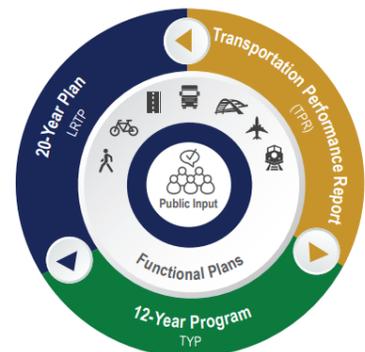
The above documents in combination with data resources including PennDOT’s bridge and pavement management systems, crash databases, historical travel time archives, and the CMAQ public access system provide the resources to monitor federal performance measures and evaluate needs across the state. Based on these resources, PennDOT and MPOs/RPOs have worked together to (1) create data driven procedures that are based on principles of asset management, safety improvement, congestion reduction, and improved air quality, (2) make investment decisions based on these processes, and (3) work to set targets that are predicted to be achieved from the programmed projects. Aligning goals and performance objectives across national (FHWA), state (PennDOT) and regions (MPOs/RPOs) provide a common framework for decision-making.



PennDOT, in cooperation with the MPOs/RPOs, has developed written provisions for how they will cooperatively develop, and share information related to the key elements of the PBPP process including the selection and reporting of performance targets. In addition, PennDOT has updated their Financial Guidance to be consistent with the PBPP provisions. The Financial Guidance provides the near term revenues that support the STIP.

## Evaluating 2025-2028 STIP Performance

The Federal Fiscal Year (FFY) 2025-2028 State Transportation Improvement Program (STIP) supports the goal areas established in PennDOT’s current long range transportation plan ([Pennsylvania 2045](#)). These include safety, mobility, equity, resilience, performance, and resources. The goals are aligned with the national goal areas and federal performance measures and guide PennDOT in addressing transportation priorities.



The following sections provide an overview of the federal performance measures and how the current project selection process for the FY2025-2028 STIP supports meeting future targets. Over the 4-year STIP, nearly 85% of the total funding is associated with highway and bridge reconstruction, preservation, and restoration projects. However, these projects are also anticipated to provide significant improvements to highway safety and traffic reliability for both passenger and freight travel. Through the federal performance measures, PennDOT will continue to track performance outcomes and program impacts on meeting the transportation goals and targets. Decision support tools including transportation data and project-level prioritization methods will be continually developed and enhanced

to meet PennDOT and MPO/RPO needs. Dashboards and other reporting tools will be maintained to track and communicate performance to the public and decision-makers.

## Safety Performance Measures (PM1)

Background		
The FHWA rules for the <i>National Performance Management Measures: Highway Safety Improvement Program</i> (Safety PM) and <i>Highway Safety Improvement Program</i> (HSIP) ( <a href="#">81 FR 13881</a> and <a href="#">81 FR 13722</a> ) became effective on April 14, 2016. These rules established five safety performance measures (commonly known as PM1). The current regulations are found at <a href="#">23 CFR 490 Subpart B</a> and <a href="#">23 CFR 924</a> . Targets for the safety measures are established on an annual basis.		
Data Source		
Data for the fatality-related measures are taken from the Fatality Analysis Reporting System (FARS) and data for the serious injury-related measures are taken from the State motor vehicle crash database. The Vehicle Miles of Travel (VMT) are derived from the Highway Performance Monitoring System (HPMS).		
2024 Safety Measures and Targets (Statewide)		
Measure	Baseline (2018-2022)	Target (2020-2024)
Number of fatalities	1,157.4	<b>1,164.1</b>
Rate of fatalities per 100 million VMT	1.182	<b>1.219</b>
Number of serious injuries	4682.4	<b>4,721.0</b>
Rate of serious injuries per 100 million VMT	4.783	<b>4.939</b>
Number of non-motorized fatalities & serious injuries	804.6	<b>817.6</b>
Methods for Developing Targets		
An analysis of Pennsylvania’s historic safety trends was utilized as the basis for PennDOT and MPO/RPO coordination on the State’s safety targets. The targets listed above are based on the five-year average value for each measure from 2020-2024. The 2023 and 2024 values are projected from the actual 2022 values. A determination of having met or made significant progress toward meeting the 2022 safety targets will be issued by the FHWA in April 2024.		

### Progress Towards Target Achievement and Reporting:

PennDOT and the MPOs/RPOs continue efforts to ensure the STIP, regional TIPs, and L RTPs are developed and managed to support progress toward the achievement of the statewide safety targets. At this time, only the Delaware Valley Regional Planning Commission (DVRPC) has elected to establish their own regional safety targets. All other MPOs/RPOs have adopted the statewide targets.

PennDOT’s [Strategic Highway Safety Plan \(SHSP\)](#) serves as a blueprint to reduce fatalities and serious injuries on Pennsylvania roadways and targets 18 Safety Focus Areas (SFAs) that have the most influence on improving highway safety throughout the state. Within the SHSP, PennDOT identifies 3 key emphasis areas to improve safety – impaired driving, lane departure crashes, and pedestrian safety.

2022 SHSP Safety Focus Areas			
Lane Departure Crashes	Speed & Aggressive Driving	Seat Belt Usage	Impaired Driving

Intersection Safety	Mature Driver Safety	Local Road Safety	Motorcycle Safety
Pedestrian Safety	Bicycle Safety	Commercial Vehicle Safety	Young & Inexperienced Drivers
Distracted Driving	Traffic Records Data	Work Zone Safety	Transportation Systems Management & Operations
Emergency Medical Services	Vehicle-Train Crashes		

Pursuant to [23 CFR 490.211\(c\)\(2\)](#), a State Department of Transportation (DOT) has met or made significant progress toward meeting its safety performance targets when at least 4 of the 5 safety performance targets established under [23 CFR 490.209\(a\)](#) have been met or the actual outcome is better than the baseline performance for the year prior to the establishment of the target.

For Pennsylvania’s 2021 targets, the FHWA determined in April 2023 that Pennsylvania did not meet the statewide targets and is subject to the provisions of [23 U.S.C. 148\(i\)](#). This requires the Department to submit an implementation plan that identifies gaps, develops strategies, action steps and best practices, and includes a financial and performance review of all HSIP funded projects. In addition, the Department is required to obligate in Federal Fiscal Year (FFY) 2024 an amount equal to the FFY 2020 HSIP apportionment.

The FHWA has established certain special rules for HSIP under [23 U.S.C. 148\(g\)](#). Among them is the Vulnerable Road User Safety special rule created by IJA-BIL [23 U.S.C. 148\(g\)\(3\)](#). This new special rule provides that the total annual fatalities of vulnerable road users in a state represents not less than 15% of the total annual crash fatalities in the state. [Additional guidance](#) on the Vulnerable Road Users Safety special rule was released by FHWA on February 2, 2022.

PennDOT was notified by FHWA in April 2023 that Pennsylvania triggered the Vulnerable Road Users Safety special rule. For calendar year 2021, the number of Vulnerable Road Users fatalities exceeded 15% of the total annual crash fatalities. PennDOT is therefore required to obligate in FFY 2024 not less than 15% of the amount apportioned under 23 U.S.C. 104(b)(3) for highway safety improvement projects to address the safety of vulnerable road users.

As part of the Highway Safety Improvement Program Implementation Plan, the Department identified gaps and best practices to support further reducing serious injuries and fatalities. The following opportunities were identified as ways to assist with meeting future targets: (1) appropriate project selection, (2) expanding local road safety in HSIP, (3) assessing programs that support non-motorized safety, (4) expanding use of systemic safety projects, (5) improved project tracking for evaluation purposes and (6) project prioritization for greater effectiveness.

PennDOT continues to provide feedback on statewide and MPO/RPO-specific progress towards target achievement. The progress helps regional MPOs/RPOs understand the impacts of their past safety investments and can guide future planning goals and strategy assessments.

#### **HATS TIP**

- **HATS Performance Measure Target Letters, and applicable Annual Reports are attached to this file.**
- Performance Measure 1 (Safety) data is provided through PennDOT's Pennsylvania Crash Information Tool (PCIT).
- Performance Measure 2 (Bridges and Pavement) data is provided in a report from PennDOT.
- Performance Measure 3 (Interstate Reliability and Air Quality) data is provided through RITIS and the American Community Survey.
- HATS works closely with PennDOT Central Office and Engineering District 8-0 Staff to ensure planning consistency with PennDOT's Performance Measure Targets. Engineering District 8-0 Staff are frequently consulted and included as part of HATS planning program to provide guidance and insight into best practices based on PennDOT's strategy for meeting established performance measures.

#### **Evaluation of STIP for Target Achievement:**

The following will ensure that planned projects in the STIP will help to achieve a significant reduction of traffic fatalities and serious injuries on all public roads:

- PennDOT receives federal funding for its Highway Safety Improvement Program (HSIP). The 2025-2028 STIP includes \$534 million of HSIP funding. The Department distributes over 60% of this funding to its regions based on fatalities, serious injuries, and reportable crashes. In addition, a portion of the HSIP funding is reserved for various statewide safety initiatives. A complete listing of the HSIP projects is included in appendix.
- All projects utilizing HSIP funds are evaluated based on a Benefit/Cost (B/C) analysis, Highway Safety Manual (HSM) analysis, fatal and injury crashes, application of systemic improvements, improvements on high-risk rural roads, and deliverability. A data-driven safety analysis is generated through an HSM analysis is required as part of PennDOT's HSIP application process. Performing this analysis early in the planning process for all projects will help ensure projects selected for inclusion in the STIP will support the fatality and serious injury reductions goals established under PM1.
- The process for selecting safety projects for inclusion in the STIP begins with the Network Screening Evaluation that the Department has performed on a statewide basis. Selecting locations with an excess crash frequency greater than zero from this network screening is key to identifying locations with a high potential to improve safety. This evaluation has been mapped and is included in PennDOT's OneMap to ease use by PennDOT's partners. At the current time, this is not all inclusive for every road in Pennsylvania. Locations not currently evaluated may be considered by performing the same type of excess crash frequency evaluation the Department utilizes. Once this analysis has been performed, the data is used by the Engineering Districts and planning partners to assist MPO/RPO's in evaluating different factors to address the safety concern
- PennDOT continues to improve on the methods to perceive, define and analyze safety. This includes integration of Regionalized Safety Performance Functions (SPFs) that have been used to support network screening of over 20,000 locations.<sup>1</sup>

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<sup>1</sup> For more information on SPFs: <https://www.penndot.gov/ProjectAndPrograms/Planning/Research-And-Implementation/Pages/activeProjects/Safety-Performance-Functions.aspx>

- PennDOT continues to identify new strategies to improve safety performance. PennDOT is actively participating in FHWA’s Every Day Counts round 5 (EDC-5) to identify opportunities to improve pedestrian safety as well as reduce rural roadway departures. These new strategies are to be incorporated into future updates to the SHSP.
- Safety continues to be a project prioritization criterion used for selecting other STIP highway and bridge restoration or reconstruction projects. Many restoration or reconstruction projects also provide important safety benefits.
- PennDOT continues to evaluate procedures to help in assessing how the STIP supports the achievement of the safety targets. As HSIP projects progress to the engineering and design phases, Highway Safety Manual (HSM) predictive analyses are completed for the project in accordance with PennDOT Publication 638. The HSM methods are the best available state of practice in safety analysis and provides quantitative ways to measure and make safety decisions related to safety performance. PennDOT will continue to identify ways to expand the application of HSM analyses to support more detailed assessments of how the STIP is supporting achievement of the safety targets.

#### **HATS TIP (PM-1)**

- *HATS will continue to work with PennDOT Central Office and Engineering District 8-0 to review progress towards achieving the established Statewide Performance Measure Targets on an ongoing basis. This will ensure a continuing, comprehensive, and coordinated approach towards meeting the Performance Measure Targets.*
- *HATS has \$67,505,542 programmed on the FFY 2025-2028 TIP for safety related projects.*
- *Regarding PM-1, in addition to the incorporation of safety into our RTP Project Pipeline evaluations, MPO and District 8-0 staff prioritized candidates using PennDOT’s Network Screening Tool, compared those with locally identified safety needs, and evaluated conceptual designs to determine cost/benefit analysis required for inclusion in the HSIP program.*
- *TCRPC/HATS has contracted with Kittelson & Associates to analyze planned, programmed, and projects in the HATS Pipeline. The purpose of this contract is to help HATS present more candidate projects to Engineering District 8-0 and PennDOT Central Office in order to better utilize HSIP as a funding source.*
- *TCRPC/HATS Staff created an ArcGIS Online WebApp to showcase the last 5-years of PCIT data. This primarily is focused on non-interstate routes. This WebApp helps to be a public-facing tool.*
- *TCRPC Staff is working to analyze publicly available crash data from PennDOT in GIS. Spatial analysis of crashes helps us to understand where crashes are occurring as well as giving us the opportunity to analyzing the attributing factors of the crashes. This analysis will help TCRPC to effectively build new partnerships and work with stakeholders to determine the most appropriate approach to reducing and ultimately eliminating fatal and suspected serious injury crashes.*
- *TCRPC/HATS has contracted with Kittelson & Associates to develop a Qualified Safety Action Plan. The plan will allow TCRPC/HATS and local jurisdictions within the region to apply for SS4A Implementation funding for safety related projects an programs identified in the plan.*
- *HATS has programmed \$48,258,733 in regional TIP funding (non-HSIP) that is used to support safety.*

<b>HSIP Project Totals Programmed on FFY 2025-2028 HATS TIP</b>		
<b>Project</b>	<b>Project Title</b>	<b>Project Cost</b>
117594	SR 641 and Locust Point Rd Intersection HSM**	\$ 4,858,582
117596	SR 641 and Middlesex Rd Intersection HSM	\$ 3,612,248
88060	HSIP Reserve Line Item	\$ 496,880
117612	PA 743 and PA 341 Intersection HSM**	\$ 3,000,148
114321	PA 34 Safety Improvements and Resurfacing**	\$ 7,278,951
<b>Total</b>		<b>\$ 19,246,809</b>
<b>** Partially HSIP Funded Projects</b>		

<b>Non-HSIP Safety Projects on the FFY 2025-2028 HATS TIP</b>		
<b>Project Name</b>	<b>Estimated Project Cost</b>	<b>MPMS ID</b>
Boiling Springs Pedestrian	\$ 486,591	115796
Maple Drive Multi-Use Trail	\$ 525,696	115795
Lemoyne Bottleneck Improvements	\$ 3,802,332	114202
Wesley and Royal Drive	\$ 54,240	115789
Union Deposit Improvements	\$ 64,888	115790
Highland Street Connectivity	\$ 453,675	115797
Riverlands Safety Implementation	\$ 17,750,570	106554
Simpson Ferry Road/Sheely Lane Improvements	\$ 1,140,539	110474
Sycamore/Paxton Intersection Improvement	\$ 2,137,448	113384
18th and Hummel Pedestrian Safety	\$ 20,000	115788
Market Street Improvements (Newport)	\$ 331,856	115794
Middletown Road Safety and Congestion Improvements	\$ 6,824,668	116786
Walnut Bottom Road/West Street/Willow Street	\$ 1,249,647	117675
Eisenhower Boulevard Safety Improvements	\$ 1,424,828	118276
D-8 Ped Countdown Signals	\$ 3,000,000	119233
Herr Street Pedestrian Improvements	\$ 925,000	118502
Emaus Streetscape Project	\$ 1,102,991	119310
Union Deposit Corridor Improvements	\$ 977,426	119307
Cameron/Maclay Intersection Improvements	\$ 311,051	114316
Quarry Road Sidewalk Extension	\$ 608,794	115787
Center/21st Intersection	\$ 2,440,070	114319
Phase II Streetscape Improvements - 3rd Street	\$ 1,702,100	119304

Hummelstown Pedestrian Improvements	\$	924,323	119305
<b>Total</b>	<b>\$</b>	<b>48,258,733</b>	

## Pavement/Bridge Performance Measures (PM2)

Background			
<p>The FHWA rule for the National Performance Management Measures; Assessing Pavement and Bridge Condition for the National Highway Performance Program (<a href="#">82 FR 5886</a>) became effective on February 17, 2017. This rule established six measures related to the condition of the infrastructure on the National Highway System (NHS). The measures are commonly known as PM2. The current regulations are found at <a href="#">23 CFR 490 Subpart C and Subpart D</a>. Targets are established for these measures as part of a four-year performance period. This STIP includes projects that will impact future performance periods based on when projects are constructed or completed.</p>			
Data Source			
<p>Data for the pavement and bridge measures are based on information maintained in PennDOT’s Roadway Management System (RMS) and Bridge Management System (BMS). The VMT are derived from the Highway Performance Monitoring System (HPMS).</p>			
2022-2025 Pavement Performance Measure Targets (Statewide)			
Measure	Baseline 2021	2-year Target 2023	4-year Target 2025
% of Interstate pavements in Good condition	68.8%	69.0%	65.0%
% of Interstate pavements in Poor condition	0.4%	2.0%	2.0%
% of non-Interstate NHS pavements in Good condition	37.2%	31.0%	29.0%
% of non-Interstate NHS pavements in Poor condition	1.5%	6.0%	6.5%
Bridge Performance Measure Targets (Statewide)			
Measure	Baseline 2021	2-year Target 2023	4-year Target 2025
% of NHS bridges by deck area in Good condition	27.5%	28.0%	28.0%
% of NHS bridges by deck area in Poor condition	4.4%	7.5%	7.5%
Methods for Developing Targets			
<p>Pennsylvania’s pavement and bridge targets were established in late 2022 through extensive coordination with a Transportation Asset Management Plan (TAMP) steering committee and workshops with MPOs/RPOs and FHWA’s Pennsylvania Division. The targets are consistent with PennDOT’s asset management objectives of maintaining the system at the desired state of good repair, managing to lowest life cycle costs (LLCC), and achieving national and state transportation goals.<sup>2</sup> Targets were calculated based on general system degradation (deterioration curves) offset by improvements expected from delivery of the projects in the STIP along with planned state funded maintenance projects.</p>			

### Progress Towards Target Achievement and Reporting:

Improving Pennsylvania’s pavement and bridges is a critical part of the strategic investment strategy for Pennsylvania’s transportation network at the State and Federal level. Improving the condition and

<sup>2</sup> For more information on LLCC: <https://www.penndot.gov/ProjectAndPrograms/Asset-Management/Documents/Lowest-Life-Cycle-Cost-Infographic.pdf>

performance of transportation assets is another goal area of the 2045 Statewide LRTP. With limitations on available resources, the preservation of pavement and bridge assets using sound asset management practices is critical. Asset management is a key piece of FHWA's TPM program and is a vital force behind infrastructure performance.

Within its asset management framework, it was necessary for PennDOT to transition away from a "worst-first" programming methodology to a true overall risk-based prioritization and selection of projects for its system assets based on LLCC. "Worst-first" prioritization focuses work on the poorest condition assets at the expense of rehabilitation and preventative maintenance on other assets in better condition. PennDOT's revised strategy reflects its asset management motto and guiding principle: "The right treatment at the right time." This is reflective of Federal TAMP requirements that are centered on investing limited funding resources in the right place at the right time to produce the most cost-effective life cycle performance for a given investment.

PennDOT's [TAMP](#) formally defines its framework for asset management, which is a data-driven approach coupled with a risk-based methodology. It outlines the investment strategies for infrastructure condition targets and documents asset management objectives for addressing risk, maintaining the system at the desired state of good repair, managing to LLCC, and achieving national and state transportation goals. The TAMP is developed by the PennDOT Asset Management Division (AMD) in consultation with PennDOT Executive leadership, Center for Program Development and Management (CPDM), Bureau of Planning and Research (BPR), PennDOT Districts, the Pennsylvania Turnpike Commission (PTC), the MPOs/RPOs and FHWA.

With each program update, PennDOT has made substantial advances in its asset management tools and practices. A risk-based, data-driven approach to project selection helps ensure that the right projects are prioritized, and the transportation system is managed optimally to the lowest practical life-cycle cost. PennDOT's Pavement Asset Management System (PAMS) and Bridge Asset Management System (BAMS) are the foundations for this asset management approach. These systems forecast condition and investment needs by asset class using deterioration models and treatment matrices developed for PennDOT infrastructure and based on historical data. PennDOT has developed both predictive and deterministic models that support multi-objective decision-making based on current average work costs and estimated treatment lifespans. These models allow PennDOT to predict infrastructure investment needs and future conditions under a range of scenarios.

As part of its asset management strategy, PennDOT strives to maintain as many highway and bridge assets as possible in a state of good repair. PennDOT defines its desired state of good repair as meeting the FHWA minimum condition thresholds for pavements and bridges: no more than 5 percent of NHS Interstate lane-miles shall be rated in poor condition and no more than 10 percent of total NHS bridge deck area shall be rated as poor. However, the ability to achieve these condition thresholds is funding dependent.

PennDOT uses its PAMS and BAMS systems to assist with prioritizing preservation activities to extend asset life. This methodology allows PennDOT to manage assets to the lowest practical life-cycle cost and help it to make progress toward achieving its targets for asset condition and performance. Implementation of these improved asset management practices should be applied on all state and local networks.

#### **HATS TIP (PM-2)**

- *HATS Staff works closely with PennDOT Engineering District 8-0 to ensure consistency with Performance Measure 2 targets as established by PennDOT. HATS will continue to work closely with District 8-0 on an ongoing basis to ensure planning and project programming is consistent with PennDOT best practices.*
- *Continue to monitor pavement / bridge conditions based on PennDOT annual reports.*
- *For PM-2, candidate projects to address asset management were matched with regional needs identified in the HATS Regional Transportation Plan. MPO staff worked with District 8-0 staff to address immediate needs and opportunities where they intersected with the RTP needs.*

### **Evaluation of STIP for Target Achievement:**

The following has helped to ensure that planned projects in the STIP will help to maintain a desired state of good repair in bridge and pavement conditions for the interstate and NHS roadways:

- Nearly 85% of PennDOT’s STIP funding is directed to highway and bridge preservation, restoration, and reconstruction projects. Many of these projects are focused on our state’s interstate and NHS roadways.
- Pennsylvania’s investment strategy, reflected in the statewide 2025 Twelve Year Program (TYP) and 2025-2028 STIP, is the result of numerous strategic decisions on which projects to advance at what time. PennDOT continues to address the challenges of addressing local needs and priorities, while ensuring a decision framework is applied consistently across the state.
- In support of the STIP development, PennDOT and MPOs/RPOs jointly developed and approved General and Procedural Guidance and Transportation Program Financial Guidance documents.<sup>3</sup> The guidance, which is consistent with the TAMP, formalizes the process for Districts, MPOs/RPOs and other interested parties as they identify projects, perform a project technical evaluation, and reach consensus on their portion of the program.
- The Procedural Guidance also helps standardize the project prioritization process. The guidance is key to resolving issues between programming to lowest life-cycle cost, managing current infrastructure issues and risk mitigation. The resulting methodology allows data-driven, asset management-based decisions to be made with human input and insight based on field evaluations to achieve maximum performance of the available funds. The guidance document is revised for each STIP cycle as PennDOT’s asset management tools and methods evolve and enhance its ability to program to lowest life cycle cost.
- PAMS and BAMS outputs are the basis for determining project programming to achieve LLCC. PennDOT Districts work with MPO/RPOs to generate the lists of recommended treatments by work type (such as highway resurfacing and bridge rehabilitation), based on LLCC and condition projections derived from PennDOT’s PAMS and BAMS. PennDOT AMD provides any necessary support. For the 2025 Program Update, as PennDOT integrates PAMS and BAMS into the STIP and TYP development, AMD provides the PAMS and BAMS outputs for any District or MPO/RPO that requests them. Those areas that have the capability may produce their own outputs. PAMS and BAMS outputs define recommended treatments and forecasted conditions, but not necessarily complete project scopes and limits. These outputs serve as a guide to assist in the prioritization and selection of new projects to be considered for the program. Performance can be compared if projects are considered that do not align with PAMS and BAMS outputs.
- As part of the regional TIP development process mentioned above, the MPOs/RPOs and PennDOT Districts must document the differences between the PennDOT asset management

<sup>3</sup> The 2025 Financial Guidance can be found at: <https://talkpatransportation.com/how-it-works/tip>

system treatment and funding level recommendations and their selected projects as part of their TIP submissions. They must also document the coordination with the PennDOT District(s) and Central Office that occurred as part of this decision-making process. This information is used by PennDOT AMD to improve future asset management policy and procedures, sharing of information and tools, and system functionality.

**HATS TIP (PM-2)**

- *As part of the HATS Regional Transportation Plan, Asset Management was one of the scoring criteria for the project development process. Asset Management, more specifically roadway segment / bridge conditions were a factor in the project development process. This also helped to determine the eligibility for projects on the RTP project pipeline.*
- *The highest possible points were awarded to bridges identified as being in “Poor” condition, with progressively lower points awarded to bridges in “Fair” or “Good” condition.*
- *Roadway segments were prioritized in a similar fashion with the highest points being awarded to segments with a “Poor” International Roughness Coefficient, with progressively lower points awarded to segments with “Fair,” “Good,” or “Excellent” ratings.*
- *There is currently no Spike Funding programmed on the FFY 2025-2028 TIP for Pavement/Bridge projects.*
- *Below is a table of preserved or improved bridge deck area & miles of pavement based on HATS Highway/Bridge and Interstate TIPs.*
- *The HATS Regional Transportation Plan does not contain or identify specific performance targets for PM-2 aside the statewide targets adopted by HATS MPO in February 2024. HATS will continue to program projects that contribute to meeting or making significant progress toward those established statewide targets. Within the FFY 2025-2028 TIP, those projects primarily consist of those included in the following tables.*

<b>Improved Bridge Deck Area based on FFY 2025-2028 TIP Projects</b>		
<b>MPMS #</b>	<b>Project Title</b>	<b>Deck Area (SqFt)</b>
18977	Market St over Juniata River	18850
20576	Juniata Parkway over Cocolamus Creek	1742
20579	PA 34 over Little Buffalo Creek	1820
63084	Middle Ridge Road over Big Buffalo Creek	2044
74521	Maclay Street Bridge	30670
78706	Rutter Rd over Armstrong Creek	1697
87421	Pine Road over Irishtown Gap Hollow Run	510
87454	Cameron St over Asylum Run	2120
87459	Honeymoon Trail ov Tributary to Pine Creek	515
87462	State Road over Fishing Creek	1470
87479	Juniata Parkway over Tributary to Juniata River	573
87485	PA 17 Bridge over Raccoon Creek	656
87490	Pisgah State Rd over Tributary to Shermans Creek	456

87653	Mountain House Rd over N Branch of Armstrong Creek	515
90328	Elizabethtown Rd over Tributary to Conewago Creek	476
90332	Juniata Parkway over Tributary to Juniata River	184
90341	SR 209 over Tributary to Wiconisco Creek	248
90346	Roxbury Road over Whiskey Creek	288
90706	Raccoon Valley Rd over Tributary to Raccoon Creek	386
90708	Spring Road Bridge 1	533
90710	Carlisle Street Bridge	897
90741	Big Spring Rd over Big Spring Creek	648
90749	Hays Grove Rd over Yellow Breeches Creek	263
90771	South River Rd over Powells Creek	1898
90849	Powells Valley Rd over Rattling Creek	1815
90907	Juniata Parkway over Tributary to Juniata River	232
91397	Cold Storage Rd over Little Buffalo Creek	1006
93176	Market St Bridge West	77674
93177	Market St Bridge East	81504
93178	Clarks Ferry Bridge PM	245497
99813	Old Forge Rd over Yellow Breeches Creek	4891
99870	US-209 over Wiconisco Creek	4180
99885	Enders Road over Armstrong Creek	708
99912	Wilhour Rd over Wiconisco Creek	7599
99980	Market St over Rattling Creek	3223
99983	Montour Creek Bridge	640
100083	Roundtop Road over Iron Mine Run	766
100271	Susquehanna Trail over Little Juniata Creek	30783
100368	Pfoutz Valley Rd over Cocolamus Creek	1674
100456	Stone Arch Rd over Tributary to Buffalo Creek	841
101093	Spring Road over Little Juniata Creek	748
101108	PA 850 over Tributary to Shermans Creek	392
106558	Center Rd Bridge T-403 over Bixler Run	1008
106563	West Cross Rd Bridge	754
115791	S Main St Bridge Improvements	978
117189	Nyes Rd over Beaver Creek	3089
117216	Hillsdale Rd over Tributary to Conewago Creek	212
117225	US 22 over Cocolamus Creek	28256
117251	Juniata Parkway over Howe Run	336
117252	Horse Valley Rd over Horse Valley Run	360
117464	US 11 over Burd Run	2652
117469	Straws Church Rd over Tributary to Armstrong Creek	956
117479	US 11 over Letort Spring Run	3473
117545	PA 34 over Juniata River	22388
117646	Lisburn Rd over Cedar Run	1297
117663	Derry Street over Spring Creek	1850

117665	Thirteenth Street over NS	7194
117667	Market Street over Paxton Creek	4278
117698	Paxton St over NS	9912
117702	Lisburn Rd over Mill Race	1033
119311	Perry County Covered Bridges	5062
120307	Kohn Road over Paxton Creek	1846
120308	Quarry Road over Mountain Creek	594
121179	SR 34 Bridge over Juniata River	22388
<b>Total</b>		<b>653548</b>

<b>Improved / Preserved Linear Miles of Pavement for FFY 2025-2028 Interstate TIP</b>		
<b>MPMS #</b>	<b>Project Title</b>	<b>Linear Miles</b>
92931	Eisenhower Interchange	5.93
113357	I-83 East Shore Section 3B	3.48
113376	I-83 East Shore Section 3C	3.07
113378	Eisenhower Interchange B	5.05
113380	Eisenhower Interchange C	4.07
113754	I-83 South Bridge Replacement	2.61
116481	I-81 over Stone House Rd	0.04
119677	I-81 MM 47 to 52 Concrete Patch w/Diamond Grinding	9.78
<b>Total</b>		<b>34.03</b>

<b>Improved / Preserved Linear Miles of Pavement for FFY 2025-2028 Highway/Bridge TIP</b>		
<b>MPMS #</b>	<b>Project Title</b>	<b>Linear Miles</b>
88314	American Ex-POW Memorial Highway	13.39
100202	US 209 Resurfacing	5.06
106554	Riverlands Safety Implementation	3.26
108605	Scheaffers Valley Rd Resurface	5.96
110474	Simpson Ferry Rd/ Sheely Ln Improvements	1.72
113283	Elizabethtown Rd Resurfacing	5.29
113299	Big Spring Road Resurface 2	4.20
113384	Sycamore/Paxton Intersection Improvements	0.15
114202	Lemoyne Bottleneck Improvements	1.03
114315	Sporting Hill Turn Lane	0.86
114316	Cameron/Maclay Intersection Improvements	5.88
114319	Center/21st Intersection	0.82
114321	PA 34 Safety Improvements & Resurfacing	6.67
116119	Blue-Gray Resurface	7.35
116120	Walnut Bottom Resurface	5.16
116786	Middletown Rd Safety and Congestion Improvements	3.40

117675	Walnut Bottom Road/West Street/Willow Street	0.42
119783	22 Concrete Patching & Diamond Grinding	14.72
119784	Susquehanna Trail Restoration	33.70
	<b>Total</b>	<b>119.04</b>

## System Performance Measures (PM3)

Background			
<p>The FHWA final rule for the <i>National Performance Management Measures; Assessing Performance of the National Highway System, Freight Movement on the Interstate System, and Congestion Mitigation and Air Quality Improvement Program</i> (<a href="#">82 FR 5970</a>) became effective on May 20, 2017. This rule established six measures related to transportation performance (commonly known as PM3). The current regulations are found at <a href="#">23 CFR 490 Subparts E, F, G &amp; H</a>. Targets are established for these measures as part of a four-year performance period. This TIP includes projects that will impact future performance periods based on when projects are constructed or completed.</p>			
Data Source			
<p>The Regional Integrated Transportation Information System (RITIS) software platform is used to generate the travel time-based measures. Data from the American Community Survey (ACS) and FHWA's CMAQ annual reporting system are used for the non-SOV travel and emissions measures.</p>			
Travel Time and Annual Peak Hour Excessive Delay Targets			
Measure	Area	2-year Target 2023	4-year Target 2025
Interstate Reliability	Statewide	89.5%	89.5%
Non-Interstate Reliability		88.0%	88.0%
Truck Reliability Index		1.40	1.40
Annual Peak Hour Excessive Delay Hours Per Capita (Urbanized Area)	Philadelphia	15.2	15.1
	Pittsburgh	10.5	10.5
	Reading	6.5	6.5
	Allentown	8.4	8.4
	Harrisburg	9.1	9.1
	York	6.4	6.4
	Lancaster	3.7	3.7
Non-SOV Travel Measure Targets			
Measure	Area	2-year Target 2023	4-year Target 2025
Percent Non-Single Occupant Vehicle Travel (Urbanized Area)	Philadelphia	30.0%	30.0%
	Pittsburgh	27.0%	27.0%
	Reading	20.2%	20.2%
	Allentown	18.6%	18.6%
	Harrisburg	20.2%	20.2%
	York	15.8%	15.8%
	Lancaster	21.9%	21.9%
CMAQ Emission Targets			
Measure	Area	2-year Target 2023	4-year Target 2025
VOC Emissions (kg/day)	Statewide	18.000	36.000
NOx Emissions (kg/day)		392.000	785.000
PM2.5 Emissions (kg/day)		46.000	93.000

CO and PM10 Emissions (kg/day)		0.000	0.000
<b>Methods for Developing Targets</b>			
The System Performance measure targets were established in early 2023 in coordination with MPOs/RPOs within the state. PennDOT continues to evaluate historic variances in performance measures in relation to project completion to assist with the target setting process.			

**Progress Towards Target Achievement and Reporting:**

PennDOT and the MPOs/RPOs work to ensure that the STIP, regional TIPs, and LRTP are crafted and managed to support the improvement of the reliability and Congestion Mitigation and Air Quality (CMAQ) performance measures. These efforts are further supported by auxiliary plans such as the Regional Operations Plans (ROPs), Congestion Management Processes (CMPs), and CMAQ Performance Plans.

For each biennial report, the Bureau of Operations (BOO) within PennDOT scrutinizes statewide reliability and delay data, examining it for overarching trends. Working in synergy, BOO and CPDM pool their efforts to construct statewide and regional performance summaries (in the form of tables or maps) to be shared with the MPOs/RPOs. These summaries may be enriched by supplemental data, such as insights on the root causes of congestion. Such detailed information helps MPOs/RPOs, in collaboration with each PennDOT District, to assess progress and pinpoint areas for capacity or traffic flow improvements in order to meet the established targets more effectively. These initiatives are coordinated with the LRTP, ROP, and CMP (where applicable) in each respective region.

Tracking performance trends also supports assessing the influence of completed investments on performance measures, provided that data is accessible pre and post-project construction. These project impacts offer invaluable insights into the efficacy of historical funding, as well as potential benefits of future investments on traffic congestion and reliability.

Despite a significant portion of funding being allocated towards infrastructure repair and maintenance, PennDOT remains steadfast in its commitment to improve system mobility and enhance modal connections. PennDOT's LRTP lays out objectives aimed at fostering mobility across the transportation system, thereby steering investment decisions. Federal systems performance measures will be harnessed to evaluate future advancements in meeting these objectives and the associated targets.

*PennDOT LRTP Mobility Goal and Objectives*

**MOBILITY**

**Strengthen transportation mobility to meet the increasingly dynamic needs of Pennsylvania residents, businesses, and visitors.**

- Continue to improve system efficiency and reliability.
- Continue to improve public transportation awareness, access, and services throughout Pennsylvania.
- Provide and prioritize multimodal transportation choices to meet user needs, expand mobility options, and increase multimodal system capacity and connectivity.
- Implement regional transportation, land use standards, and tools that result in improved multimodal coordination and complementary development.
- Adapt to changing travel demands, including those associated with e-commerce and post-COVID-19 pandemic changes.
- Work with private sector partners to establish data standards for mobility services and their applications (e.g., Uber and Lyft, carsharing services, bikeshares, etc.)

**HATS TIP (PM-3)**

- *HATS will continue to work with PennDOT Central Office and Engineering District 8-0 and review progress towards achieving the established Statewide Performance Measure Targets on an ongoing basis. This will ensure a continuing, comprehensive, and coordinated approach towards meeting the Performance Measure Targets.*
- *Federal and State Guidance for achieving established Performance Measure Targets will be considered and integrated into the HATS planning program.*
- *HATS will use safety and available performance measure data in evaluating in updating its congestion management process.*
- *Priority congestion corridors and intersections based on the 2017 HATS CMP is part of the evaluation criteria for the HATS Project Pipeline. This project pipeline is the primary avenue for identification of candidate projects to be programmed on the HATS TIP. Through coordination with Engineering District 8-0, candidate projects with are eligible for CMAQ funding are identified through the PennDOT CMAQ selection process.*

### **Evaluation of STIP for Target Achievement:**

The following has helped to ensure that planned projects in the STIP will help to achieve an improvement in the system performance measures for the statewide interstate and NHS road system:

- PennDOT continues to emphasize their Transportation Systems Management and Operations (TSMO) initiatives to program low-cost technology solutions to optimize infrastructure performance. This has included the development of ROPs that integrate with the MPO CMP to identify STIP projects. A TSMO funding initiative was established in 2018 to further support these efforts. The 2025-2028 STIP includes over \$289 million of funding dedicated to congestion relief projects.
- PennDOT has funded interstate projects to address regional bottlenecks. Mainline capacity increasing projects are limited to locations where they are needed most. These investments will provide significant improvements to mobility that support meeting the interstate and freight reliability targets.
- The statewide CMAQ program and Carbon Reduction Program (CRP) provides over \$700 million of funding on the STIP for projects that benefit regional air quality or greenhouse gases. PennDOT has worked with Districts and MPO/RPOs to develop more robust CMAQ/CRP project selection procedures to maximize the air quality and carbon reduction benefits from these projects.
- Over \$210 million is provided in the STIP for multi-modal alternatives. This includes funding for transit operating costs, transit and rail infrastructure, support for regional carpooling and other bike and pedestrian infrastructure within the state. These projects provide opportunities to reduce vehicle miles of travel (VMT) and increase the percentage of non-single occupant vehicles.
- At this time, the potential impact of past and planned STIP investments on PM3 performance measures are still being evaluated. The timeline for project implementation often prevents an assessment of measurable results until a number of years after project completion. PennDOT continues to monitor the impact of recently completed projects on the reliability and delay measures. As more data is obtained, these insights will help PennDOT in evaluating potential project impacts in relation to other factors including incidents and weather on system reliability and delay.

### HATS TIP (PM-3)

- System performance measures are integrated into the HATS Regional Transportation Plan evaluation criteria. System performance was a factor in the project development process and also helped to determine eligibility for projects on the RTP project pipeline.
- \$10,220,000 has been programmed for CMAQ projects on the FFY 2025-2028 HATS TIP.
- Support of the Susquehanna Regional Transportation Partnership (SRTP) Commuter Services and Transportation Set Aside (formerly TAP) programs continue to be a HATS funding priority.
- \$385,406,101 is programmed on the FFY 2025-2028 HATS Interstate TIP using Spike funding. These programmed projects will work towards improvement of interstate highways within the HATS Region therefore supporting PM-3 Interstate Reliability Targets.
- The following are noted as key congestion relief projects within the HATS Region based on the FFY 2025-2028 HATS TIP:

- MPMS 110474 Simpson Ferry Road & Sheely Lane Intersection
- MPMS 117825 I-283 ITS Fiber

- The table with key CMAQ projects and their primary improvement focus is shown below.

Key CMAQ Projects on the FFY 2025-2028 HATS TIP				
MPMS #	Project Name	Fund	Project Amount	Improvement
114319	Center / 21st Intersection	CMAQ	\$ 2,440,070	Operational Improvements
114315	Sporting Hill Turn Lane	CMAQ	\$ 6,005,698	Operational Improvements
114202	Lemoyne Bottleneck Improvements	CMAQ	\$ 3,802,332	Operational Improvements
111064	HATS Bikeshare	CMAQ	\$ 560,000	Bicycle Facilities / Services
114107	SRTP Rideshare Program	CMAQ	\$ 1,619,165	Ridesharing / Transit
114316	Cameron / Maclay Intersection	CMAQ	\$ 311,051	Operational Improvements

## Transit Asset Management Performance Measures

### Background

In July 2016, FTA issued a final rule ([TAM Rule](#)) requiring transit agencies to maintain and document minimum Transit Asset Management (TAM) standards, policies, procedures, and performance targets. The TAM rule applies to all recipients of Chapter 53 funds that either own, operate, or manage federally funded capital assets used in providing public transportation services. The TAM rule divides transit agencies into two categories (tier I and II) based on size and mode. The TAM process requires agencies to annually set performance measure targets and report performance against those targets. For more information see: [Transit Asset Management | FTA \(dot.gov\)](#)

### Data Source

The TAM rule requires states to participate and/or lead the development of a group plan for recipients of Section 5311 and Section 5310 funding, and additionally allows other tier II providers to join a group plan at their discretion. All required agencies (Section 5311 and 5310) and remaining tier II systems except for Centre Area Transportation Authority (CATA), have elected to participate in the PennDOT Group Plan. The Group Plan is available on PennDOT's website at [PennDOT Group Plan](#). The group plan is updated annually with new targets as well as the current performance of the group.

**Transit Asset Management Targets (for all agencies in PennDOT Group Plan)**

Performance Measure	Asset Class	FY2021-22 Target	Current Performance	FY 2022-23 Target
<b>Rolling Stock (Revenue Vehicles)</b>				
<b>Age</b> % of revenue vehicles within a particular asset class that have met or exceeded their Estimated Service Life (ESL)	AO-Automobile	18%	29%	<b>29%</b>
	BR-Over-the-road Bus	18%	20%	<b>20%</b>
	BU – Bus	28%	31%	<b>31%</b>
	CU-Cutaway	52%	53%	<b>53%</b>
	VN-Van	63%	62%	<b>62%</b>
	SV-Sports Utility Vehicle	33%	36%	<b>36%</b>
<b>Equipment (Non-Revenue Vehicles)</b>				
<b>Age</b> % of non-revenue/service vehicles within a particular asset class that have met or exceeded their ESL	Automobiles	57%	45%	<b>45%</b>
	Trucks / Rubber Tire Vehicles	27%	21%	<b>21%</b>
<b>Facilities</b>				
<b>Condition</b> % of facilities with a condition rating below 3.0 on the FTA TERM scale	Administrative / Maintenance Facilities	14%	14%	<b>14%</b>
	Passenger / Parking Facilities	84%	66%	<b>66%</b>

**Methods for Developing Targets**

PennDOT annually updates performance targets based on two primary elements: the prior year's performance and anticipated/obligated funding levels. PennDOT requires rolling stock and non-revenue vehicles (equipment) to meet both age and mileage ESL standards prior to being replaced. While the identified annual targets represent only age and condition in line with FTA guidelines, PennDOT will continue to apply age and mileage when making investment decisions.

**Progress Towards Target Achievement and Reporting:**

The Pennsylvania TAM Group Plan fulfills the PBPP requirement and encourages communication between transit agencies and their respective MPOs and RPOs. In accordance with the plan, the following actions take place that fulfill the PBPP requirement:

- PennDOT provides asset performance reports to transit agencies by August 31 of each year that measure performance against established targets for the previous fiscal year.
- Transit agencies review the content for accuracy and confirm with PennDOT that information related to transportation asset performance has been received and is accurate.
- Transit agencies share performance data with their respective planning partner by the end of each calendar year, or earlier as decided between the partners.

- New performance goals for the upcoming fiscal year are established no later than September 15 of each year and communicated to transit agencies covered under the group plan.
- Transit agencies continue regular coordination regarding the local Transportation Improvement Plan (TIP) and other planning initiatives of the local planning partner.

All transit agencies are required to utilize Pennsylvania’s transit Capital Planning Tool (CPT) as part of their capital planning process and integrate it into their TAM process. The CPT is an asset management and capital planning application that works as the central repository for all Pennsylvania transit asset and performance management activities.

Consistent with available resources and in coordination with the PennDOT Bureau of Public Transit (BPT), transit agencies are responsible for submitting projects consistent with the CPT for the development of the transit portion of the Program. This ensures that projects identified on the TIP are consistent with the TAM approach and respective TAM plans. PennDOT CPDM will update this project information in MPMS and share it with the MPOs/RPOs, PennDOT BPT, and the transit agencies.

In addition to the decision support tools identified above, PennDOT is in the process of implementing a statewide Fixed Route Intelligent Transportation Systems (FRITS) program. FRITS focuses on modernizing transit technology and creating a standard platform throughout the Commonwealth. One key piece of FRITS is real-time vehicle health monitoring, which will allow agencies to identify problems before they occur on vehicles and prolong vehicle life, while also allowing agencies to better prioritize capital needs.

#### **Evaluation of STIP for Target Achievement:**

The STIP includes an investment prioritization process using established decision support tools. The investment prioritization process occurs annually as part of the capital budgeting process. To prioritize investments at an agency level and at a statewide level, the following basic actions take place:

- Update inventory in the CPT to include age, mileage, condition, and operational status
- Identify assets that are not in a state-of-good-repair, using the following priority process:
  - Vehicles that surpass age and mileage ESL
  - Vehicles that surpass age or mileage ESL and are rated in poor condition or represent a safety hazard
  - Facilities that have a condition rating of less than 3 on the TERM Scale, with priority given to facilities that are the lowest in the scale and represent a critical need to maintain operational capacity
- Determine available funding based on federal and state funding sources
- Develop projects within the CPT Planner based upon funds availability
  - Annually agencies are responsible for supplying estimates of directly awarded federal and local funding for capital projects
  - PennDOT works with agencies to facilitate the efficient use of dollars towards maintaining a state of good repair, filling project shortfalls with available state funding
- Import CPT Planner into DotGrants for the execution of capital grants

Throughout the process, PennDOT reviews projects and works with agencies to approve and move projects forward through the grant process.

#### **HATS TIP and YAMPO TIP**

- *The SRTA has voting membership on both the Technical and Policy Boards of HATS and YAMPO, as well as ACTPO. The SRTA has active roles in coordinating with both HATS and YAMPO in their development processes for the Regional Transportation Plan (HATS) and Metropolitan Transportation Plan (YAMPO). The SRTA is also actively coordinating with ACTPO in the development of their Long Range Transportation Plan (LRTP) currently underway. Both HATS and YAMPO work with the SRTA to prioritize transit asset performance measure targets. The projects listed below illustrate the coordination between SRTA and their MPO partners for rolling stock replacements.*
- *HATS and CAT TIPs – Fixed Route Bus Replacements*

- *HATS Highway/Bridge TIP MPMS # 94636 Rolling Stock Replacement*
- *CAT Transit TIP MPMS # 102482 Transit Bus Purchase*

#### **YAMPO and CPTA TIPs**

- *YAMPO Highway/Bridge TIP MPMS # 112313 CPTA Replacement Buses*
- *CPTA Transit TIP MPMS # 110665*

## **Public Transit Safety Performance Measures**

In addition to the Transit Asset Management Performance, FTA issued a final rule on Public Transportation Agency Safety Plans (PTASP), effective July 19, 2019. The PTASP final rule ([49 CFR 673](#)) is meant to enhance safety by creating a framework for transit agencies to manage safety risks in their organization. It requires recipients of [FTA Section 5307](#) funding to develop and implement safety plans that support the implementation of Safety Management Systems (SMS). At this time, recipients which receive only [Section 5311](#) (Formula Grants for Rural Areas) or [Section 5310](#) (Enhanced Mobility of Seniors and Individuals with Disabilities Program) are exempt from the PTASP requirement.

As part of the plan development process, performance targets must be established for the following areas:

1. Fatalities,
2. Injuries,
3. Safety Events
4. System Reliability

All applicable public transit agencies in the Commonwealth have written safety plans compliant with [49 CFR 673](#). These safety plans must be updated annually based on agency specific execution dates and shared with PennDOT BPT. It is also the transit agency's responsibility to share the updated plan with their respective MPO/RPO, so the new targets and measures can be incorporated into regional planning practices.

#### **HATS TIP and YAMPO TIP**

- *Projects funded on the TIPs become physical elements – on-the-ground features that maintain and improve the safety and security of the transit community, enhancing the community-at-large where we operation. These projects are generated directly in pursuit of reaching performance measure targets.*
- *The following projects are examples of in transit safety performance measure targets investment priorities translated into TIP projects:*

- *HATS/CAT TIP: MPMS # 102467 Safety & Security and MPMS # 102475 Comm./Intell. Trans.*
- *YAMPO/CPTA TIP: MPMS # 116742 Shelter Replacement, MPMS # 116749 Shelter Improvements, and MPMS # 116755 Shelter Expansion*