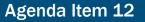
FEDERAL-REQUIREMENTS FOR PERFORMANCE BASED PLANNING & PROGRAMMING

An Overview

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PBPP – Briefing Topics

- What Is It
- Why This Approach
- What is Involved
- Performance Goals Overview
- Performance Process
- Performance Measures



What is Performance Based Planning and Programming (PBPP)

- Application of performance management within the planning and programming process to achieve desired performance outcomes for the multimodal transportation system.
- o Includes a range of activities and products.
 - Development of long range transportation plans (e.g., CLRP)
 - Federally-required plans and processes such as Strategic Highway Safety Plans (SHSPs), Asset Management Plans, the Congestion Management Process (CMP), Transit Agency Asset Management Plans, and Transit Agency Safety Plans
 - Programming documents, including State and metropolitan Transportation Improvement Programs (STIPs and TIPs)
 - Other plans



Why a PBPP approach

- **Federally required** for MPOs and DOTs MAP-21 and FAST Acts
- Improved Outcomes
 - Improved investment decision-making
 - Improved return on investments and resource allocation
 - Improved system performance
 - Increased accountability and transparency
- Demonstrates link between funding and performance
- Common themes within a PBPP Process:
 - Cooperation and coordination
 - Data and tools
 - Linkages across performance-based planning activities
 - Feedback mechanisms
 - Public and stakeholder involvement



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What is Involved in PBPP

Planning Where do we want to go? How do we get there?

Goals Performance Measures

Implement/Evaluate
How are we doing?

Monitoring Evaluation Reporting

Investment Plan Program of Projects



Programming

What will it take?

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Federally Prescribed Goals

	GOAL AREAS	NATIONAL GOALS
1	SAFETY	Achieve significant reduction in traffic fatalities and serious injuries on all public roads
2	INFRASTRUCTURE CONDITION	Maintain highway system in a state of good repair
3	CONGESTION REDUCTION	Achieve significant reduction in congestion on the National Highway System
4	SYSTEM RELIABILITY	Improve efficiency of surface transportation system
5	FREIGHT MOVEMENT AND ECONOMIC VITALITY	Improve Freight Network; Support regional economic development; Rural communities access to national and international markets
6	ENVIRONMENTAL SUSTAINABILITY	Enhanced transportation system performance while protecting and enhancing natural environment
7	REDUCED PROJECT DELIVERY DELAYS	Elimination of delays on project development and delivery



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Federally Prescribed Performance Measures

	GOAL AREAS	PERFORMANCE MEASURES
1	SAFETY	 Highway – Traffic Fatalities and Serious Injuries Transit – Fatalities and Injuries; Derailments; Collisions; Fires; Evacuations for life safety
2	INFRASTRUCTURE (ASSET) CONDITION	 Highway – Pavement and Bridges Transit – Revenue vehicles, Non revenue equipment, Track infrastructure, and Facilities/Stations
3	CONGESTION REDUCTION	 Highway – Excessive Delay per capita – Percent non-SOV travel
4	SYSTEM RELIABILITY	 Highway – Reliable Travel Times Transit – Major / Other Mechanical System Failures
5	FREIGHT MOVEMENT AND ECONOMIC VITALITY	 Highway – Reliable Truck Travel Times
6	ENVIRONMENTAL SUSTAINABILITY	 Highway – Percent Change in Tailpipe CO2 Emissions, CMAQ Program Emissions Reduced



The PBPP process

- The TPB must work with State DOTs, providers of public transportation, and other implementing agencies to:
 - Collect transportation performance data
 - Determine current performance and forecast future performance
 - Using science-based methodology and taking into account funding availability and transportation priorities
 - Set performance targets
 - One, two, and/or four years, depending on the area and measure
 - Submit reports on performance and incorporate into strategic plans, long-range transportation plans and STIPs/TIPs.
- Achievement of performance targets
 - Federal funding is not tied to performance or target achievement. (Two exceptions: state safety and state highway preservation funds may have to be reallocated if certain levels or targets are not met.)



Highway Safety Performance Measures

	Performance Measures	Description
1	Number of Fatalities (5 year rolling average)	Total number of fatalities during a calendar year
2	Rate of Fatalities per 100 million VMT (5 year rolling average)	Ratio of total fatalities to VMT
3	Number of Serious Injuries (5 year rolling average)	Total number of serious injuries during a calendar year
4	Rate of Serious Injuries per 100 million VMT (5 year rolling average)	Ratio of total serious injuries to VMT
5	Number of Non-Motorized Fatalities and Serious Injuries (5 year rolling average)	Total number of fatalities and serious injuries during a calendar year

- Implementing Agency (State DOT) set Targets in August 2017
- TPB (MPO) set Targets by February 2018



Transit Safety Performance Measures (Proposed)

	Performance Measures	Description
Fatalities	a) Customerb) Employeec) Public	total number of reportable fatalities and rate per total unlinked passenger trips by mode
Injuries	a) Customerb) Employeec) Public	total number of reportable injuries and rate per total unlinked passenger trips by mode
Safety Events	 a) Derailments b) Collisions c) Fires d) Evacuations for life safety 	total number of reportable events and rate per total vehicle miles, by mode
System Reliability	a) Major Mechanical System Failuresb) Other Mechanical System Failures	mean distance between failures by mode

- Implementing Agency (Transit Providers) set Targets TBD
- TPB (MPO) set Targets within 180 days following



Infrastructure (Asset) Condition - Pavement and Bridges

	Performance Measures	
Pavement Condition	(1) Percentage of pavements on the Interstate System in Good condition	
	(2) Percentage of pavements on the Interstate System in Poor condition	
	(3) Percentage of pavements on the NHS (excl. Interstate System) in Good condition	
(4) Percentage of pavements on the NHS (excl. Interstat System) in Poor condition.		
Bridge Condition	(5) Percentage of NHS Bridges Classified as in Good Condition	
	(6) Percentage of NHS Bridges Classified as in Poor Condition	

- Implementing Agency (State DOT, NHS Owners) set Targets by February 11, 2018
- TPB (MPO) set Targets by August 10, 2018



Transit Asset Performance Measures

	Performance Measure	Assets
Rolling stock (Age)	Percentage of revenue vehicles within a particular asset class that have met or exceeded useful life benchmark (ULB).	40 foot bus, 60 foot bus, vans, cutaways, locomotives, rail vehicles
Equipment - (non-revenue) service vehicles (Age)	Percentage of vehicles that have met or exceeded their ULB.	Cranes, prime movers, vehicle lifts, tow trucks
Infrastructure - rail track, signals, and systems (Condition)	The percentage of track segments, signal, and systems with performance restrictions.	Signals, interlockings, catenary, mechanical, electrical and IT systems
Stations/ Facilities (Condition)	The percentage of facilities, within an asset class, rated below 3 on the TERM scale.	Maintenance, Admin, Depots, Terminals, Parking Garages

- Implementing Agency (Transit Providers) set Targets by January 1, 2017
- TPB (MPO) set Targets by June 2017 (within 180 days)



System Performance: Highway and Freight

Performance Measures	
Highway	(1) Percent of the Interstate System providing for Reliable Travel Times
	(2) Percent of the NHS (non-Interstate) providing for Reliable Travel Times
	(3) Percent Change in Tailpipe CO2 Emissions on the NHS

	Performance Measures	
Freight Movement	(4) Percent of the Interstate System Mileage providing for Reliable Truck Travel Times	

- Implementing Agency (State DOT) set Targets by February 11, 2018
- TPB (MPO) set Targets by August 10, 2018



System Performance: CMAQ Program (Congestion Mitigation and Air Quality)

	Performance Measures	
CMAQ Program: Traffic Congestion	(5) Annual Hours of Excessive Delay Per Capita	
	(6) Percent of non-SOV Travel on the NHS	
CMAQ Program: Emissions Reduction	(7) CMAQ-funded projects on-road mobile source Total Emission Reductions for each applicable criteria pollutant and precursor	

- Implementing Agency (State DOT) set Targets by February 11, 2018
- TPB (MPO) set Targets by August 10, 2018



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