TPM Workshop

Component 4: Performance-Based Programming

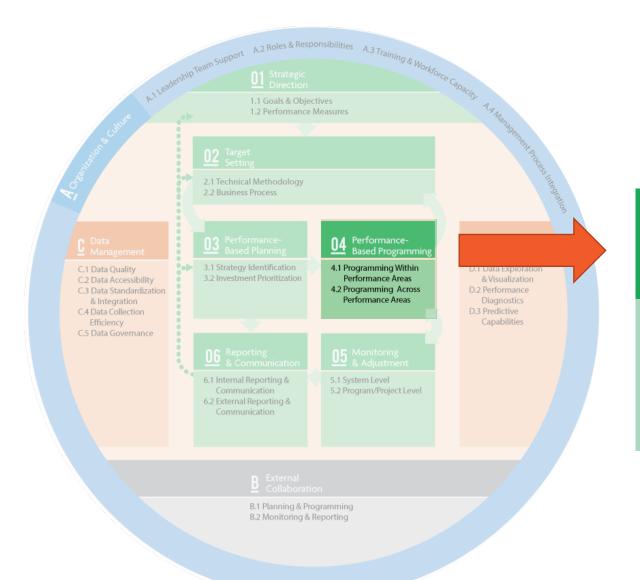
Philadelphia, PA

November 29 & 30, 2017





Component 4: Performance-Based TPM Programming



04 Performance-Based Programming

4.1 Programming Within Performance Areas

4.2 Programming Across Performance Areas

Performance-Based Programming I

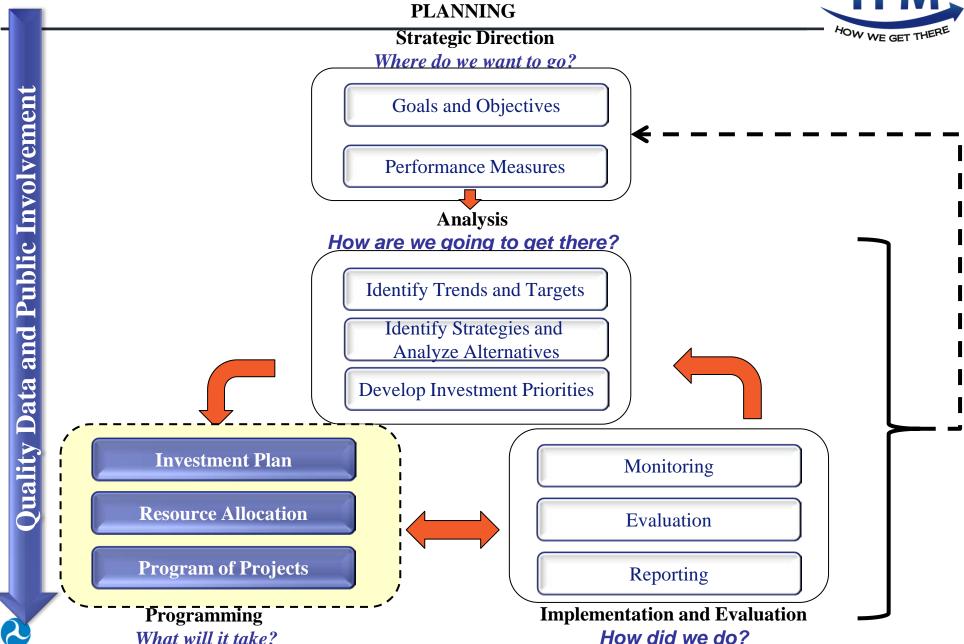
TPM HOW WE GET THERE

 Definition: The use of strategies and priorities to guide the allocation of resources to projects that are selected to achieve goals, objectives, and targets. Performance-Based Programming establishes clear linkages between investments made and expected outputs and outcomes.



Performance-Based Planning and Programming





U.S. Department of Transportation



Linking Performance-Based Planning to Programming

Transportation Plan

- Goals
- Objectives
- Targets

TIP/STIP

- Develop program
- Assess its effects





Linking Performance-Based Planning to Programming (cont.)

- Overall goals
 - Advance projects/strategies that best support performance targets/goals
 - Identify top priority projects/strategies and match these with available funds
- Challenge is how to prioritize projects/strategies identified in plans as the short-term TIP/STIP(s) are developed



Performance-Based Programming:



Subcomponents

- 4.1 Within Performance Areas
- 4.2 Across Performance Areas

Allocation and prioritization processes within performance areas

Allocation and prioritization processes across performance areas

Performance-Based Programming





Performance-Based Programming: Key Phases

- Performance elements
 - Projects (or groups of projects) prioritized based on ability to meet desired outcomes
 - Project selection criteria based on performance targets
- Key process steps:

Initial Screening

Evaluation (Weighting/ Scoring)

Prioritization and Selection





Evaluation and Prioritization Methods

- Technical methods
 - Scoring methods
 - Economic impact
 - Cost benefit
 - Cost effectiveness
- Other considerations
 - Trade-offs among targets
 - Jurisdictional equity
 - Public involvement





Example: Baltimore Metropolitan Council Project Evaluation Criteria

Each project assigned:

- Technical score (up to 50 points) assigned based on a project's expected contribution to six regional MTP goal areas
- Policy score (up to 40 points) determined based on how highly the sponsoring jurisdiction values the project



Metropolitan



Example: PennDOT Project Evaluation Criteria

PennDOT implemented performance-based evaluation criteria for funding decisions to support its commitment to preservation

- Includes seven key areas of performance
- Defines funding scenarios to examine tradeoffs



Example: Detroit MPO – Program Areas and Performance Measures



Program Area	Performance Measure	
Pavement Preservation	% of pavement in good or fair condition	
Highway Capacity	Hours of delay per 1,000 vehicle miles	
Bridge Preservation	% of bridges in good or fair condition	
Safety	Fatalities per 100 million vehicle miles	
Transit	Extent of transit network	
Nonmotorized	Population % within ½ mile of a facility	

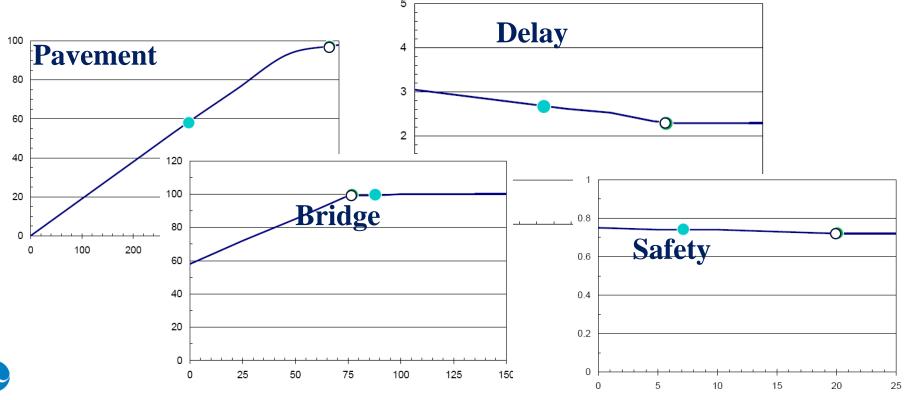


Example: Detroit MPO - Investments and



Performance

Examine the relationship between program-level investment and performance





Example: Detroit MPO – Tracking Investments against Adopted Scenario

Track performance over time; track investments against the adopted scenario

Project Type	Planned Funding	Actual Funding
Bridge	5%	5.2%
Nonmotorized	1%	1.1%
Pavement	24%	14.5%
Road Expansion	8%	3.5%
Safety	1%	0.6%
Transit Capital	8%	7.0%
Operating	53%	68.1%
Total	100.0%	100.0%



Monitoring, Evaluation and Reporting — How Did We Do?

- Critical to the PBPP and TPM processes because it provides information on:
 - Current <u>challenges</u> which inform development of goals and objectives
 - Performance and <u>trends</u> which inform development of realistic targets
 - Strategies implemented which help to assess their effectiveness

Breakouts: Performance-Based Programming







Breakout Exercise

- Discuss Performance-Based Programming maturity level
 - Questions in handout (Exercise A)
 - Use Capability Maturity Model table (Exercise A)
- Select facilitator, note taker, and presenter
- Mixed agency groups

Report out: share highlights of discussion





Report Out

- Share highlights of discussion
- 3 min per group

