

# Performance Management at the Minnesota Department of Transportation

9<sup>th</sup> National Conference on Transportation Asset Management April 17, 2012

Your Destination...Our Priority

















#### Overview

- MnDOT's early history with performance management
- Recent practice performance based planning
- New direction incorporating risk











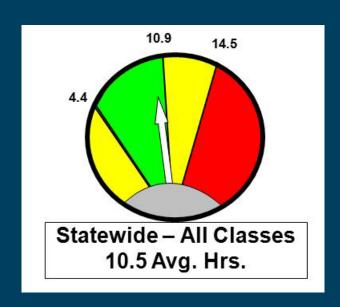








#### Performance Management History



- 1990s Began developing performance management tools
  - Maintenance Measures
- 2000s Dashboards and regular reports to Commissioner's Staff
- 2003 First performance– based statewide plan



















#### Target Setting

- Generally policy-based
- Factors in setting MnDOT targets
  - Legal-regulatory
  - Safety, risk, engineering
  - Customer research
  - Cost efficiency over life cycle
  - Historical baseline
  - Vision
- Not constrained by funding levels, but realistic



















#### Performance Management Cycle













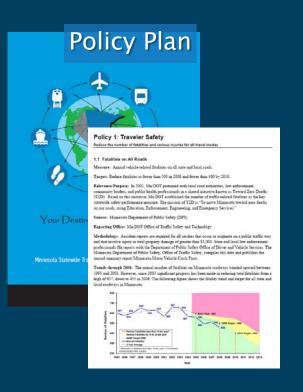








#### Performance-based Planning and Programming









Detailed analysis of investments, including expected performance impacts, legislative guidance, and stakeholder

Overarching goals, policies, and performance measures that guide

investment







input









Regular review of

policy area

performance in each





2013 - 2032 Update



#### **Key Components**

- Impact of recent expenditures on performance trends
- Costs to meet performance-based needs
- Investment direction for projected revenue
- Planned investments and associated outcomes
- Implementation strategies that use available resources wisely
- Risk Assessment



















## Major Consideration: Minnesota GO Planning Process

#### Minnesota GO 50-year Vision

Desired Outcomes

Guiding Principles Statewide Multimodal Transportation Plan

Multimodal Objectives

**Strategies** 

State Highway Investment Plan

Mode-Specific Strategies & Guidance

Performance Measures & Performance-Based Needs

**Investment Tradeoffs** 

**System Priorities & Definition** 













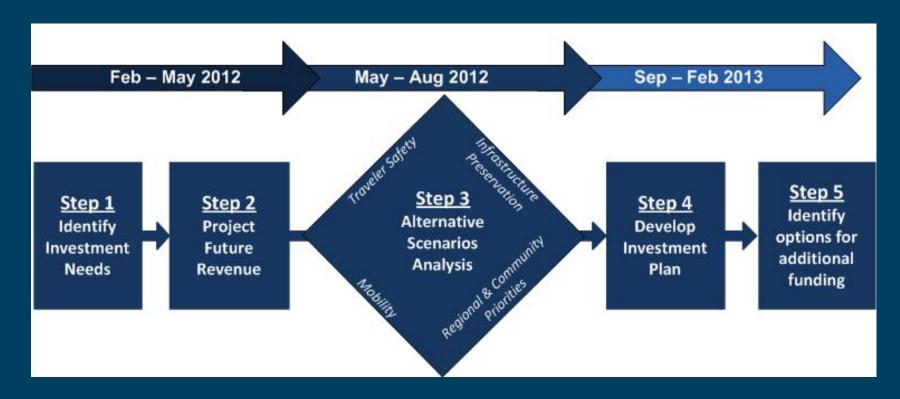






#### Plan Development: 5-Step Process

<u>Objective:</u> Refine traditional 5-Step Process to address evolving plan considerations (vision, reauthorization, risk.)





















#### Key Process Changes

#### Integrate Performance Planning & Risk Assessment

 Utilize risk assessment to produce several "Performance Level" options <u>within</u> each individual performance category.
 Define outcomes associated with each level.

#### Broaden evaluation of alternative scenarios

- Internal: Develop & evaluate "Performance Level" options across categories. Generate several alternative scenarios & associated outcomes for public discussion
- External: Solicit stakeholder feedback













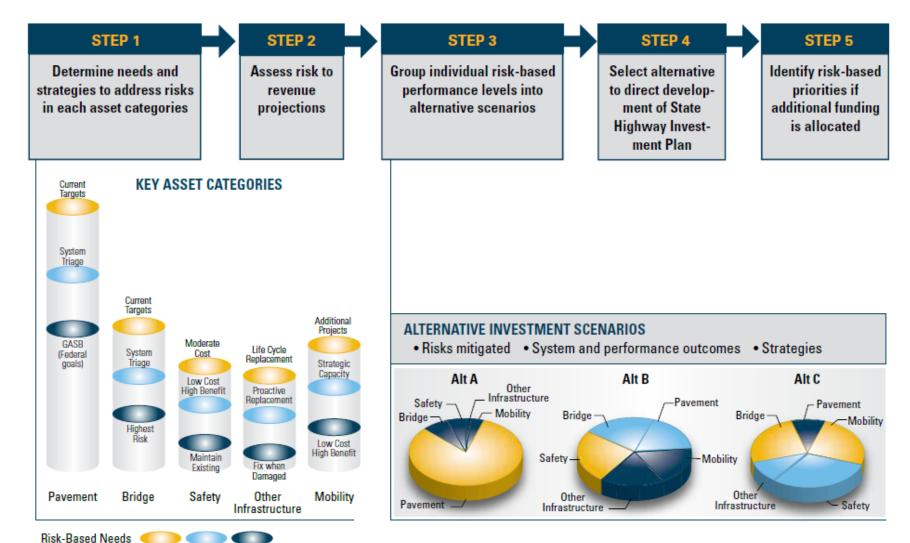


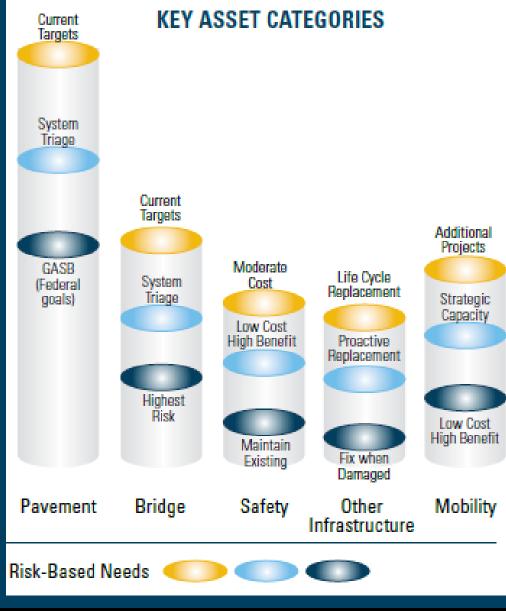




### How will Risk be Incorporated into the Highway Investment Planning Process?







- Step 1 Determine needs and strategies to address risks in each asset category
- Step 2 Assess risk to revenue projections



















- Step 3 Group individual risk-based performance levels into alternative scenarios
- Step 4 Select alternative to direct development of State Highway Investment Plan

#### ALTERNATIVE INVESTMENT SCENARIOS Risks mitigated System and performance outcomes Strategies Alt A Alt B Alt C Other Infrastructure Safety -Pavement Pavement Mobility Bridge Bridge Bridge -Mobility Safety -Mobility Other Other Pavement Safety Infrastructure

 Step 5 Identify risk-based priorities if additional funding is allocated



















### Additional Issues & Future Considerations

- Performance Targets
- Funding Distribution
- Capital/Maintenance tradeoffs
- Asset Management Plans



















#### Comments/Questions

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