



Asset Management and Policy Directive 14

Statewide Plan and Asset Management Joint
Committee Meeting
Jan. 16, 2013

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Purpose of Today's Discussion

Input on Policy Directive 14:

- Purpose
- Goals related to Asset Management
- Performance Measures for:
 - Infrastructure Condition
 - Bridges
 - Highways
 - Other Roadway Assets
 - Maintenance

Background:

Statewide Plan and PD 14

- PD 14 revised at beginning of each Statewide Plan cycle.
- Past PD 14 versions:
 - Contained aspirational goals for programs
 - Goals related to budgetary “investment categories”
- This PD 14 revision uses MAP-21 National Goals and performance measures as basis.

Background:

Policy Directive 2

Vision, mission, and value statements contained in PD 2.

- **VISION**

To enhance the quality of life and environment of the citizens of Colorado by creating an integrated transportation system that focuses on safely moving people and goods by offering convenient linkages among modal choices.

- **MISSION**

To provide the best multi-modal transportation system for Colorado that most effectively and safely moves people, goods, and information.

Purpose of PD 14

- Provide framework for Statewide Plan development
 - Statewide Transportation Plan to reflect optimization of transportation system by balancing:
 - Preservation and maintenance (Maintain)
 - Efficient operations and management practices (Maximize)
 - Capacity improvements (Expand)
- Guide allocation of resources to achieve goals and objectives:
 - Statewide Plan
 - STIP
 - Annual budget
- Provide structure for performance reporting after Plan adoption

PD 14 Goals

- SAFETY
- **INFRASTRUCTURE CONDITION – Preserve transportation infrastructure condition to ensure safety and mobility at a least life cycle cost.**
- **MAINTENANCE – Annually maintain CDOT’s roadways and facilities at a good level of service.**
- SYSTEM PERFORMANCE
- PROJECT DELIVERY

MAP-21 AND PD 14

- Today's discussion will be focused on these MAP-21 performance measures, as well as measures for Maintenance:

MAP-21 National Goal Areas	Safety	Infrastructure Condition	Congestion Reduction	Freight Movement and Economic Vitality	System Reliability	Environment Sustainability	Reduced Project Delivery Delays
MAP-21 Perform. Measures	<ul style="list-style-type: none"> • Serious injuries per VMT • Fatalities per VMT • Number of serious injuries • Number of fatalities 	<ul style="list-style-type: none"> • Pavement condition of the Interstate system • Pavement condition of the NHS (excluding Interstates) • Bridge condition on the NHS • Transit State of Good Repair 	Traffic congestion	<ul style="list-style-type: none"> • Freight movement on the Interstate system 	<ul style="list-style-type: none"> • Performance of Interstate system • Performance of the NHS (excluding Interstate system) 	<ul style="list-style-type: none"> • On-road mobile source emissions 	None

Infrastructure Condition & Maintenance

- **Infrastructure Condition**

- Bridges
- Highways
- Other Roadway Assets (with current asset management programs)
 - Culverts
 - Tunnels
 - Rockfall mitigation

- **Maintenance**

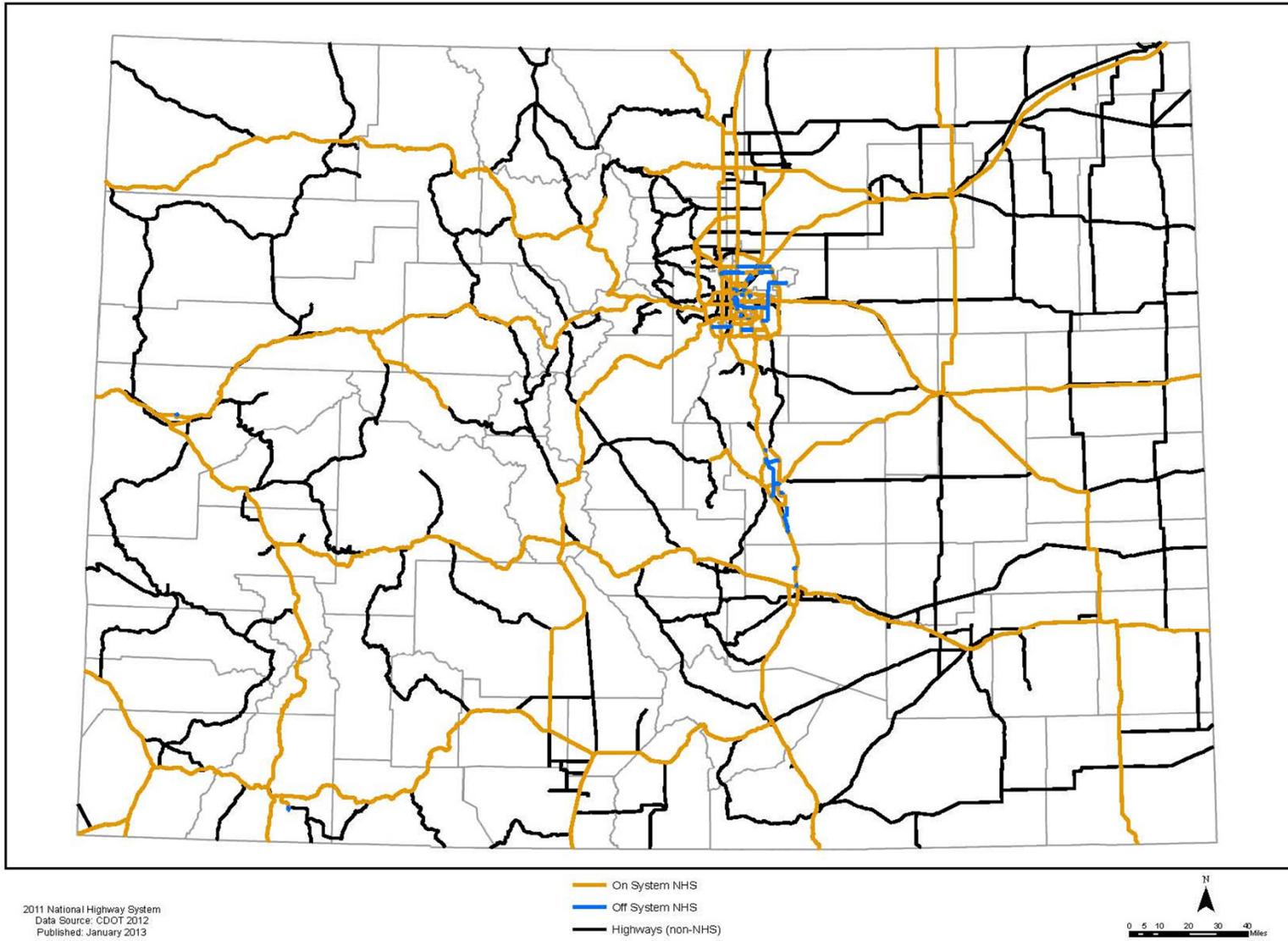
Achievement of Current Asset Management Goals and Objectives

PD 14 GOALS	PD 14 OBJECTIVES	ACTUAL
<p>Bridges</p> <ul style="list-style-type: none"> Achieve 95% good/fair deck area condition system-wide 	<p>Bridges</p> <ul style="list-style-type: none"> Maintain/improve system-wide forecast for 2016 of 83% good/fair deck area 	<p>Bridges</p> <ul style="list-style-type: none"> Achieved 96.4% good/fair deck area
<p>Pavement</p> <ul style="list-style-type: none"> Achieve 60% good/fair condition system-wide 	<p>Pavement</p> <ul style="list-style-type: none"> Maintain/improve system-wide forecast for 2016 of 40% good/fair condition 	<p>Pavement</p> <ul style="list-style-type: none"> Achieved 48% good/fair
<p>Other Roadway Assets</p> <ul style="list-style-type: none"> Not included in PD 14 	<p>Other Roadway Assets</p> <ul style="list-style-type: none"> Not included in PD 14 	<p>Other Roadway Assets</p> <ul style="list-style-type: none"> Not included in PD 14

Achievement of Current Asset Management Goals & Objectives

PD 14 GOALS	PD 14 OBJECTIVES	ACTUAL
Maintenance <ul style="list-style-type: none">• Achieve a B maintenance level of service grade	Maintenance <ul style="list-style-type: none">• Meet/exceed adopted annual maintenance level of service grade	Maintenance <ul style="list-style-type: none">• Achieved a B- level of service grade

2011 National Highway System



2011 National Highway System
Data Source: CDOT 2012
Published: January 2013

PD 14 Performance Measures

- Bridges

- **Bridge condition on the National Highway System (NHS) – MAP-21 Requirement**

- Condition of CDOT-owned bridges on the NHS.

+

- Condition of CDOT-owned bridges not on the NHS.

=

- Bridge condition on the state highway system.

PD 14 Performance Areas

- Highways
 - **Pavement condition on the National Highway System (NHS) – MAP-21 Requirement**
 - **Pavement condition on the NHS, excluding Interstates – MAP-21 Requirement**

 - Condition of CDOT NHS
 - +
 - Condition of CDOT non-NHS
 - =
 - Condition of state highway system

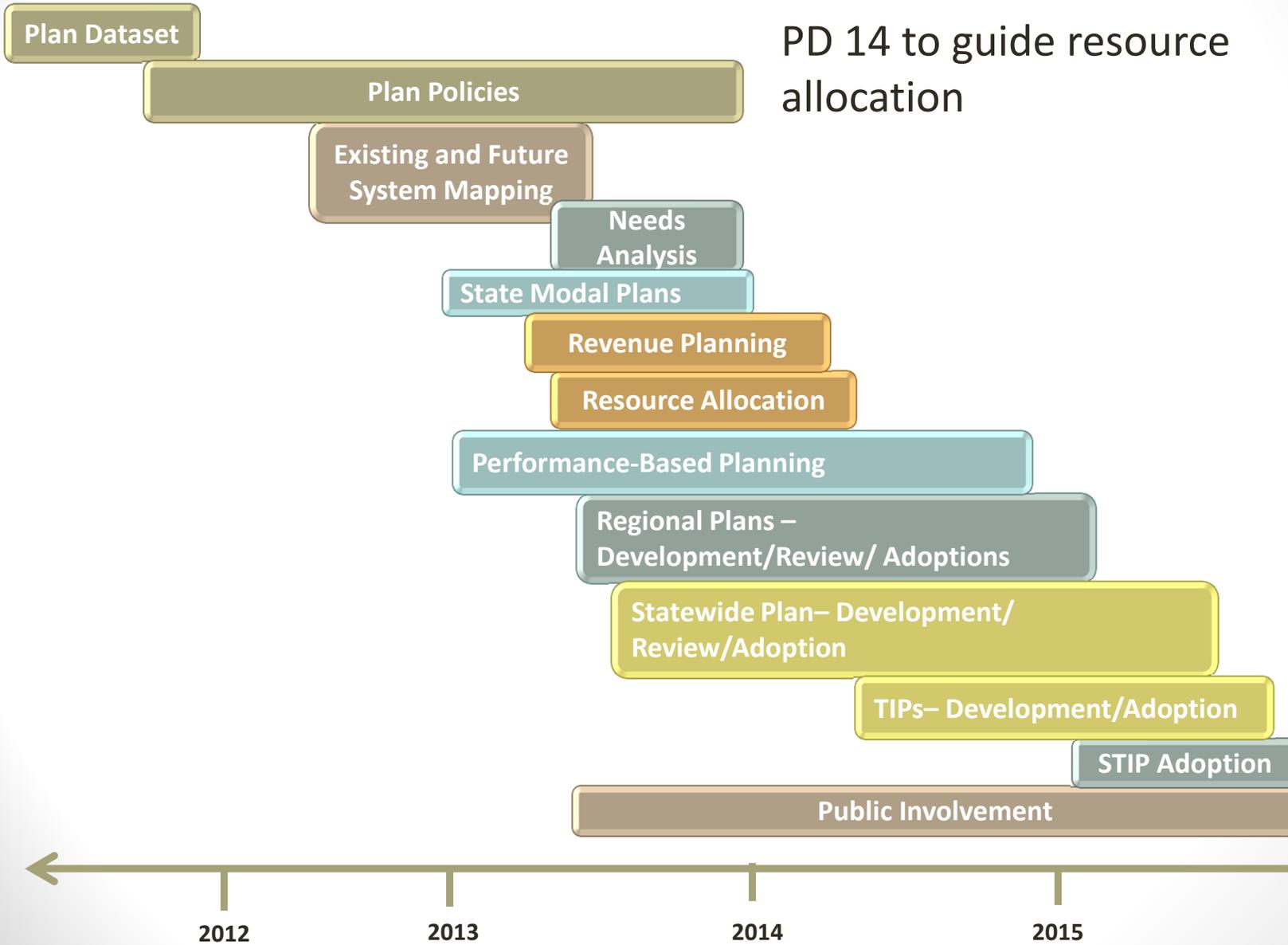
PD 14 Performance Areas

- Other Roadway Assets
 - Risk-Based Asset Management Plan will determine
- Maintenance
 - Level of Service for snow and ice removal
 - Overall Maintenance Level of Service for the state highway system

PD 14 Metrics and Objectives

	Metrics	Objectives	Achievement
Bridges	Deck area on structurally deficient bridges	<p>< 10 % deck area on structurally deficient bridges on NHS</p> <p><i>TBD - % deck area on structurally deficient bridges for state highway system bridges</i></p>	< 5% of deck area on structurally deficient bridges
Pavement	Drivability	<i>TBD - % good/fair drivability for state highway system</i>	<i>TBD - drivability a new metric</i>
Maintenance	Level of Service (LOS) grade	<i>TBD - LOS grade for snow and ice removal; overall maintenance</i>	B- Level of Service Grade

Statewide Plan Development



Next Steps:

- Discuss and seek input on performance measures for:
 - Infrastructure Condition for Transit
 - Safety
 - Project Delivery
 - System Performance
- Revise “draft” PD 14 based on Statewide Plan and Asset Management committee input