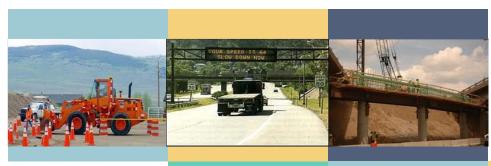
Transportation Asset Management





Statewide Transportation Advisory Committee
September, 2013
CDOT

Agenda

- Asset Management Budgets
- Policy Directive 14 and Asset Management
 Allocations
- RAMP Asset Management Project Selection
 Process
- Next Steps



Asset Expenditures and FY14 Budget

Asset	Average Expenditures (5 yrs FY08-FY12)		OFMB Final FY14 Budget	
Surface Treatment	\$	151,642,821	\$	150,690,472
Bridge + BE	\$	122,617,281	\$	140,734,197
MLOS	\$	233,549,060	\$	249,029,332
Fleet	\$	19,089,855	\$	14,191,591
ITS	\$	12,247,977	\$	11,185,068

Note: Historical expenditures from OFMB analysis, except Maintenance, which is based on SAP MLOS Region Report.

Source: FY14 Final Budget 4-18-13

Note: Bridge does not include bridge off system but does include debt service

and bond proceeds

Note: Surface Treatment includes \$86M advancement

Note: ITS excludes new capital investment



Asset Expenditures and Draft Budget

Asset	Average Expenditures (5 Yrs FY08-FY12)	OFMB Final FY14 Budget	
Rockfall	\$ 5,158,315	\$ 5,174,164	
Buildings	\$ 9,080,862	\$ 6,948,491	
Tunnels MPA	Included in MPA	\$ 7,486,970	
Culverts (incl. in Bridge)	Included in Bridge	\$ 5,600,000	
Walls (incl. in Bridge)	Included in Bridge	\$ 500,000	

Source: FY14 Final Budget 4-18-13





RAMP Criteria for Asset Management

Summary of Eligible Programs:

For an asset management program to be RAMP-eligible, it must:

- 1. Be able to **demonstrate** with a **quantified performance measure** the **benefit of additional investment**.
- 2. Have an **existing asset management system** that has, among other features, the ability to establish a performance target (e.g. maximize life cycle otherwise optimize performance) and at the same time minimize cost in achieving that performance target.
- 3. Distinguish between annual maintenance activities and capital preservation, and replacement activities, and fund only capital preservation and replacement. Crack filling and data gathering, for example, are not RAMP-eligible activities. Those should be addressed through the baseline budget setting process.
- 4. Be able to expend its RAMP funding by the December following the fiscal year of advancement. Fiscal Year 2014 RAMP must be spent by December 2014.

FY 14 Budget and RAMP

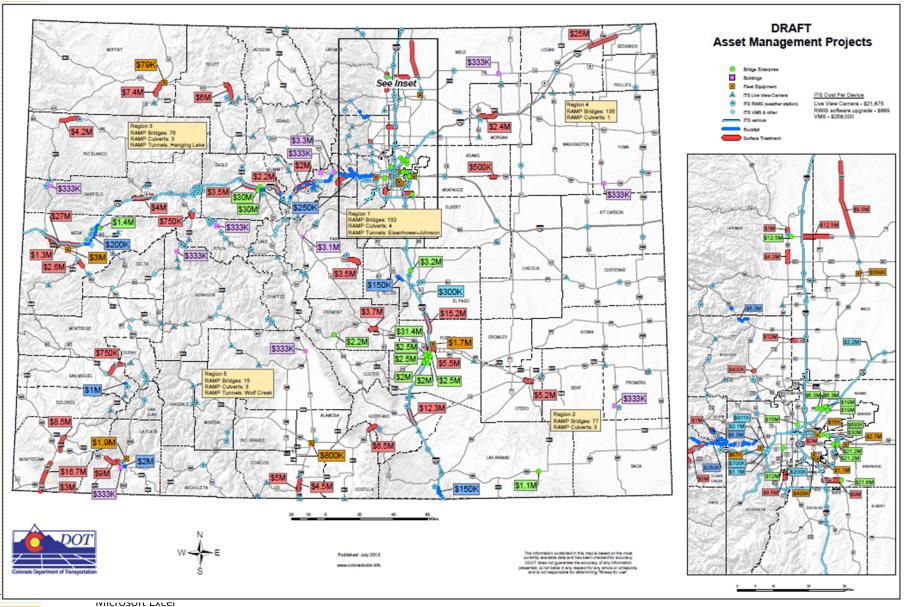
FY14 Budget with FY14 RAMP at \$160M:

	FY14 RAMP = \$160 Million				
			FY14 Budget +		
Asset:	FY14 Budget	FY14 RAMP	<u>RAMP</u>		
Surface Treatment	\$150.6	\$88.2	\$238.8		
Structures					
Bridge & BE	\$140.6	\$33.3	\$173.9		
Tunnels	\$0.0	\$7.4	\$7.4		
Culverts	\$5.6	\$5.9	\$11.5		
Walls	\$0.5 incl. in Brdg	\$0.0	\$0.0		
MLOS	\$249.0	\$0.0	\$249.0		
Fleet	\$14.1	\$6.8	\$20.9		
ITS (excludes new capital)	\$11.2	\$10.3	\$21.5		
Rockfall	\$5.2	\$3.8	\$9.0		
Buildings	\$6.9	\$4.4	\$11.3		
Tota	l \$583.2	\$159.9	\$743.1		

• FY14 RAMP Dollars must be spent by December, 2014.



FY14 Budget and RAMP Asset Map



Proposed TC Goals in Draft Policy Directive 14

• Pavement:

- Maintain pavement condition level of TBD High and Moderate Drivability Life for Interstates.
- Maintain pavement condition level of TBD High and Moderate Drivability Life for state highway NHS, excluding Interstates.
- Maintain pavement condition level of TBD High and Moderate Drivability Life on the total NHS. (Placeholder; to be revised after Federal guidance issued.)
- Maintain pavement condition level of TBD High and Moderate Drivability Life for state highway non-NHS roadways.
- Maintain pavement condition level of TBD High and Moderate Drivability Life for the state highway system.

Bridge:

- Maintain the percent of NHS bridge total deck area that is not structurally deficient at or above 90%.
- Maintain the percent of NHS state highway bridge total deck area that is not structurally deficient at or above 90%.
- Maintain the percent of state highway total bridge deck area that is not structurally deficient at or above 90%.
- Meet bridge goals in the Risk-Based Asset Management Plan.

Maintenance:

- Maintain an LOS B grade for snow and ice removal.
- Maintain an overall MLOS B- grade for the state highway system.



FY15 Asset Management Budget

- FY 15 Budget and RAMP Assumption
 - Assume \$583 M and \$165 M?
 - Staff workshop with Asset Managers and RTDs (Delphi)
 - Initial discussion with Transportation Commission

Present Information to STAC in October for input to TC

Future Budget Process informed by PD 14 and Asset Management Systems



Surface Treatment Project Selection

- Surface Treatment staff run Pavement Management System (PMS) using Drivability methodology for the entire CDOT network of pavements
- PMS recommends various treatments for highway segments based on segment condition, traffic based pavement category, and cost/benefit optimization
- Staff recommends regional planning budgets based on distribution and cost of recommended work from PMS analysis across entire CDOT network.
- Regions use recommended planning budget and refined PMS inputs (e.g. local costs and performance benefits) to again run PMS with DL on their network to produce a final list of PMS project recommendations
- Regions review PMS project recommendations with planning partners and consider input on priorities and needs.
- Regions use the final refined project recommendations lists to develop Surface Treatment plan

Bridge Projects

- Bridge Enterprise staff follow established
 Prioritization criteria to determine which bridges to replace next
- For non-enterprise bridges, Bridge staff are developing a preventive maintenance program to determine most effective treatments for bridges
- Once treatment recommendations are available from the Bridge asset management system, staff will share the recommendations with Region staff
- Regions will work from the recommendations and discuss with surface treatment, local agencies and others to determine optimal bridge projects



Next Steps

STAC and **TC** Input:

October: STAC Discussion on Asset Management

November: STAC Recommendation and TC

Workshop on Program Distribution

December: TC Adoption of Program Distribution



Questions?

