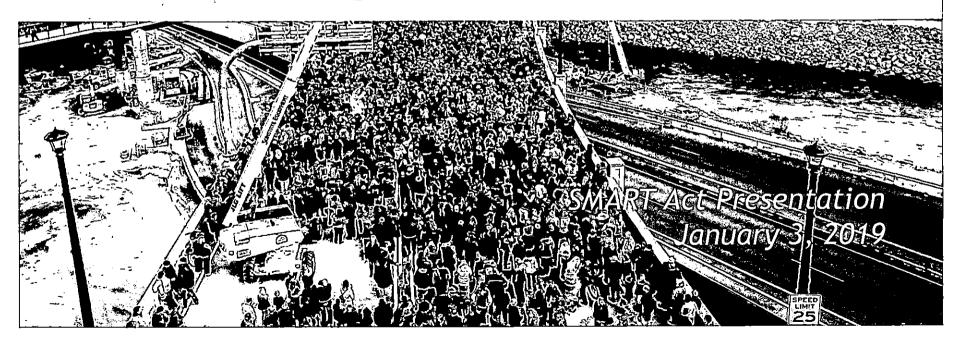




COLORADO

Department of Transportation





CDOT's 3 Key Responsibilities

Initiatives

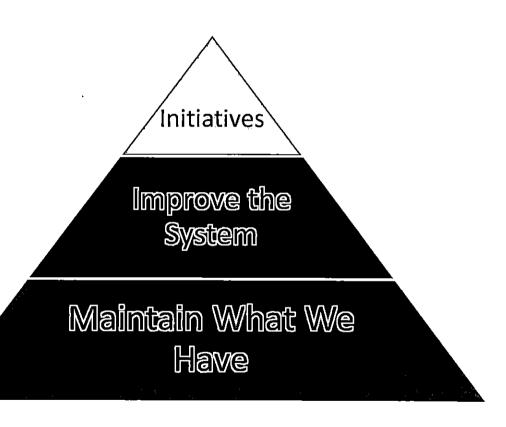
- Constant improvements
- Cost effectiveness
- Point to the future / Visionary

Construction & Engineering

- Limited funds for major projects
- Improve mobility / Increase options

Maintenance & Asset Mngmt

- 1st priority & foundational
- Keep the roads open





CDOT Responsibilities



MAINTAINS, & REPAIRS 23,000 HIGHWAY LANE MILES









MAINTAINS

3,447

BRIDGES



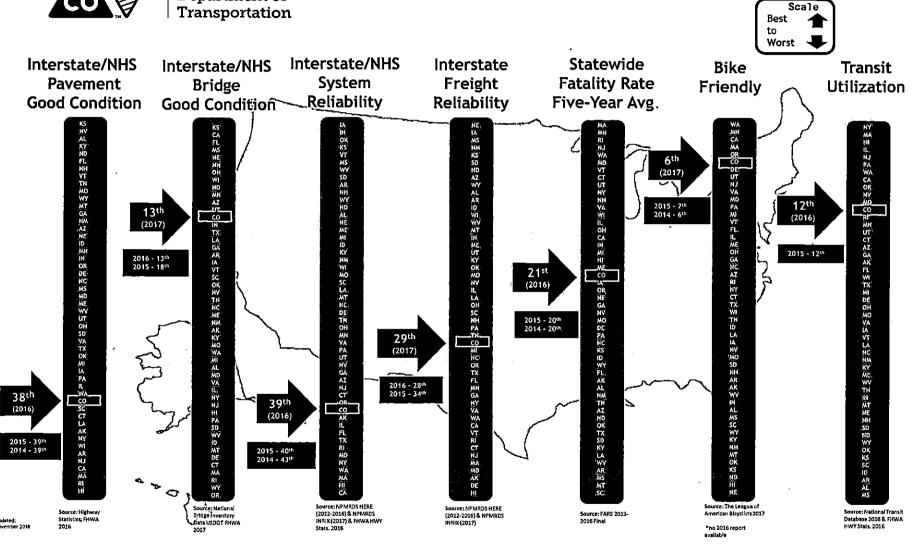


CDOT Annual Report FY 2017



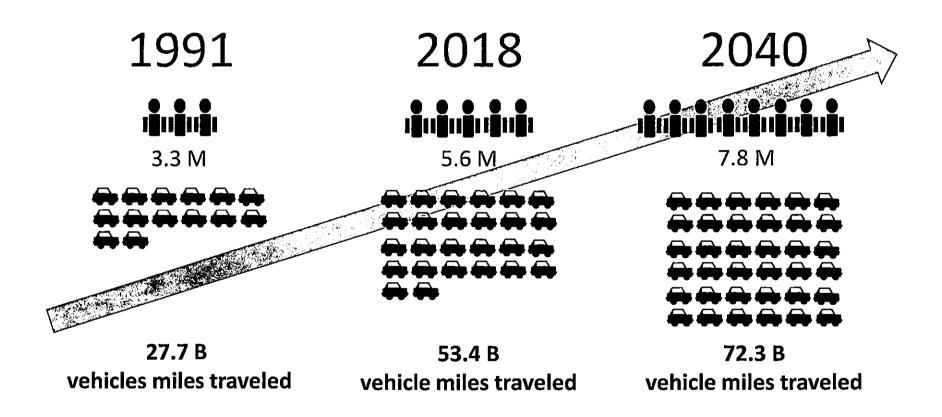
COLORADO Department of

Where Does Colorado Rank?





Our Challenge Continued Growth

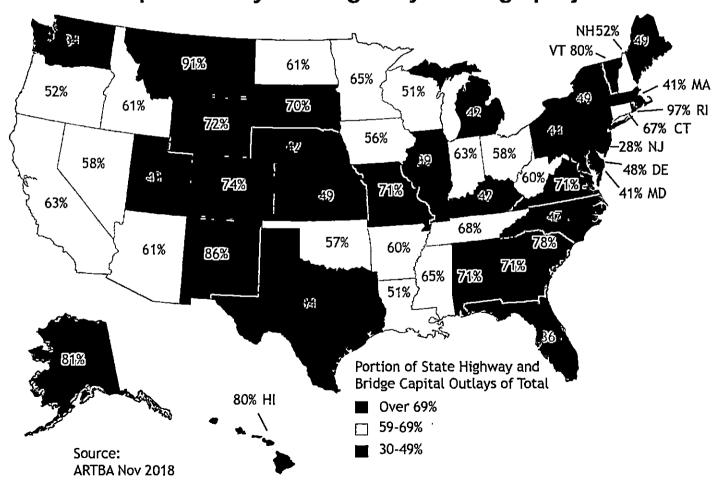




Reliance On Federal Funds

Almost \$3 of Every \$4 for Capital Construction are Federal Funds

Federal funds, nationally, provide an average 52% of State DOT annual capital outlays for highway & bridge projects





Performance Reporting Hierarchy

Governor's Vision

High-level goals for each executive department. CDOT's Vision 2018 goal: travel time reliability, and reducing fatalities on roadways.

Tier 1: Three Peaks

CDOT Vision towards becoming the best DOT in the nation for our customers. Includes other mission and vision documentation.

Tier 2: Legislation Required Performance Reporting

Managing business processes and outcomes through performance measures.

Tier 3: Lagging & Leading Performance Indicators

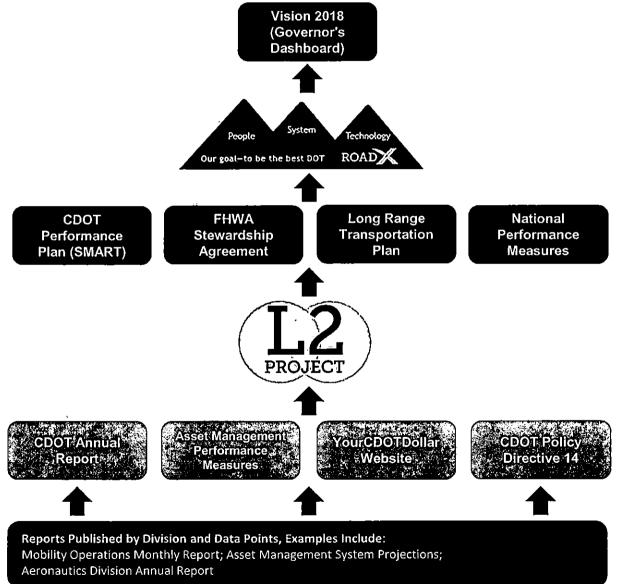
Managing business processes and outcomes through performance measures.

Tier 4: CDOT Reports (non-statute required)

Used for decision making and reporting outcomes to our customers and the Transportation Commission.

Tier 5: Division Reports & Data:

Published on specific divisions and programs.

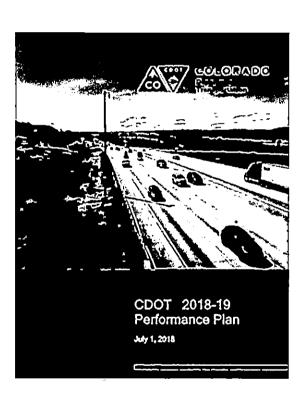




FY 2018-19 PERFORMANCE PLAN

Key elements: Five Strategic Policy Initiatives (SPI) and supporting operational metrics

- Safety
 - Roadway Fatalities
 - Workers' Compensation Claims
- Customer Service
- Travel Time
- Pavement Condition
- Maintenance





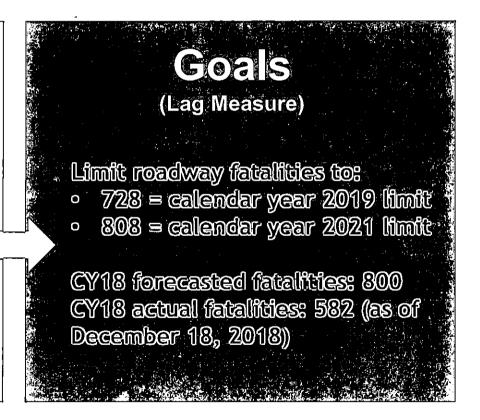


Safety (Roadway Fatalities)

Strategies

(Sample Lead Measures))

- Fund 75,000 law-enforcement contact hours in 2019 to enforce traffic safety (Example: "Heat Is On" campaigns).
- Ensure 90% of FASTER safety projects address high-priority locations (10% address proactive safety issues).

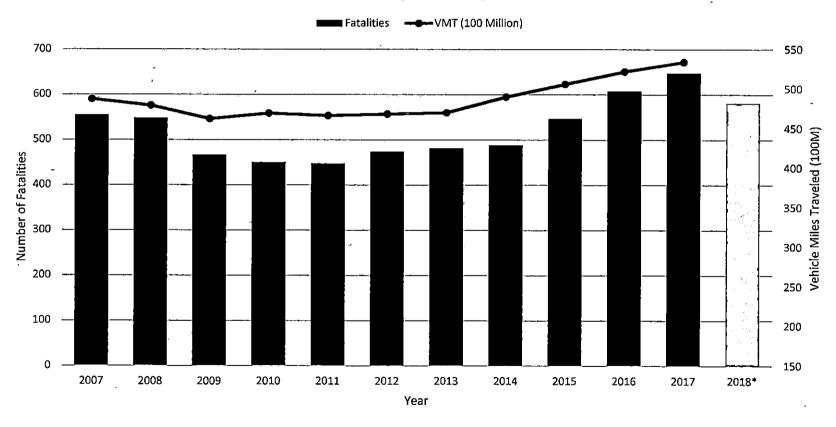




Safety Initiative

Safety (Roadway Fatalities)

Colorado Roadway Fatalities, 2007-2018





Workers' Compensation Initiative

Workers' Compensation Claims

Strategies

(Sample Lead Measures)

- Conduct 10,000 Safety
 Engagements in 2019.
- Recognize 125 Safety Leaders and 900 Safety Champions in 2019.

Goals

(Lag Measure)

Reduce workers' compensation claims to:

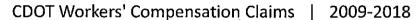
- 228 = calendar 2019 goal
- 206 = calendar 2021 goal

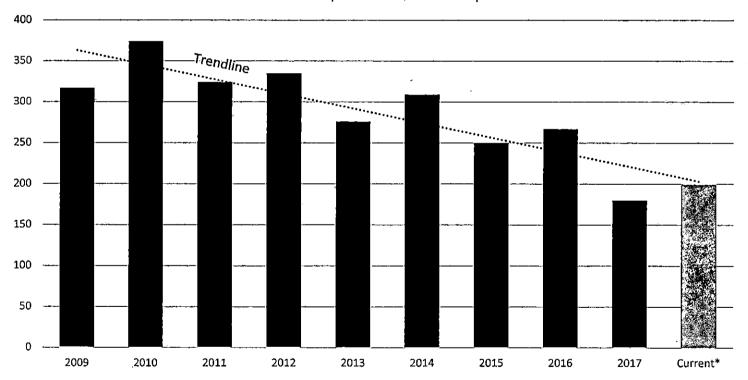
2017 actual claims: 180 2018 actual claims: 199 (Ghrough November 30, 2018)



Workers' Compensation Initiative

Workers' Compensation Claims







Customer Service Initiative

Customer Service

Strategies (Sample Lead Measures)

- 100% of customer inquiries responded to in 48 hours
- Ensure that 90% of customers who were assisted by CDOT's Courtesy Patrol service were satisfied with the service provided.

Goals

(Lag Measure)

- Adhieve a Customer Service Satisfaction percentage of:
 - 85% for CY18
 - 87% for CY20
- CY17 Actual Satisfaction: 87%





THE TRAVELING PUBLIC

TRANSIT/ RAIL





BIKE/PED

FREIGHT/
TRUCKING





AGRICULTURE

AVIATION





TOURISM

Some Of Our Customers And How We Serve Them

Grew customer service hotline with nearly 10,000 public contacts and customer satisfaction rates of 75%

Over 9 million page views for codot.gov

Over 18 million visits to Cotrip.org

Over half a million calls to 511

Grew social and media engagements by 25%

Reached 3.4 million talking about transportation, funding, projects through social media, telephone town halls, events with Together We Go

100



Travel Time

NB I-25

Metro

SB 1-25

Metro

Strategies

(Sample Lead Measures)

- Reduce average incident dearance times in 2018
- Incress the percentage of first responders trained in Traffic Incident Management to 50 percent in 2019.

(Lag Measure)					
Interstate	2017 Time	2019 Goal	2021 Goal		
EB 1-70 Mountain	96 min.	95 min.	90 min.		
WB I-70 Mountain	92 min.	93 min.	91 min.		

49 min.

49 min.

51 min.

50 min.

48 min.

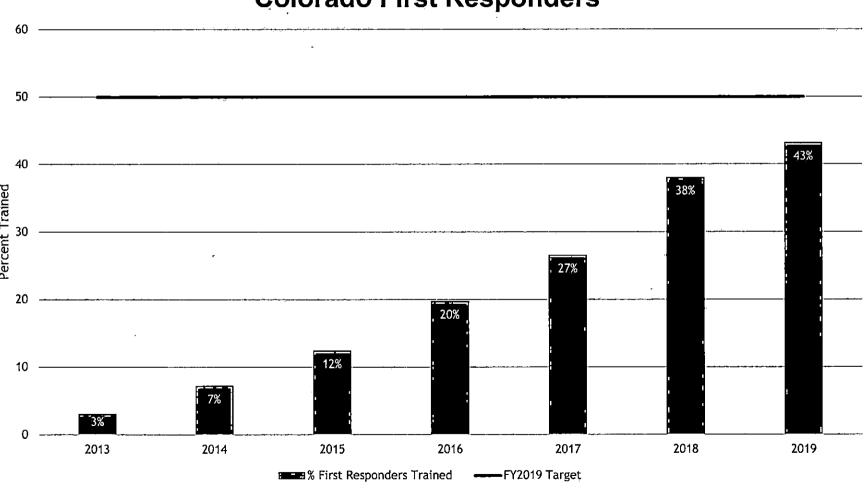
48 min.

^{*}Travel-time goals based on reductions from projected times.



Travel Time TIM Training

Training in Traffic Incident Management Colorado First Responders

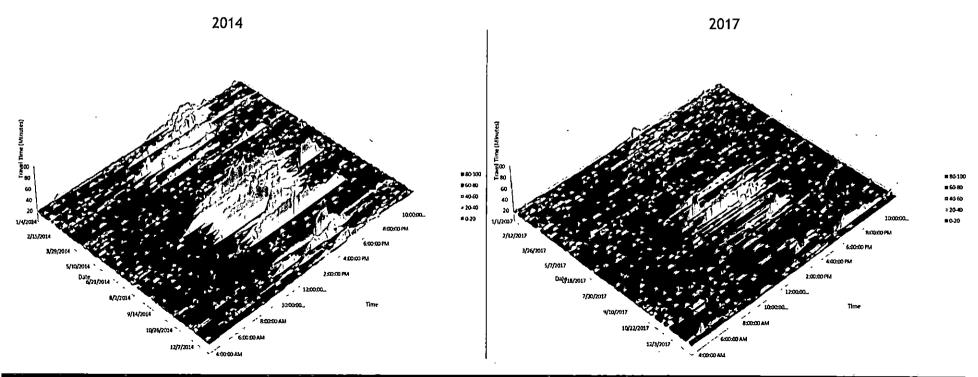




Travel Time - I-70 MEXL East

Corridor Performance Improvement

- Peak-period lane only operational when warranted
- Winter travel time spikes > 30 min nearly eliminated
- Summer travel time delay still present, but intensity and duration of peak greatly reduced
- Only weekend data used for I-70 MEXL analysis



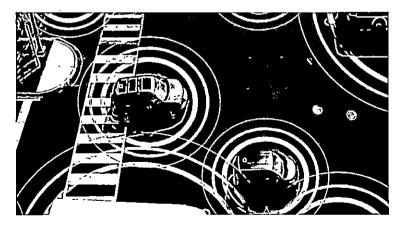


Technology Reducing Travel Time

Active Projects

- Ramp metering on I-25 south through Colorado Springs
- 12 ramp meters on I-25 through central Denver
- Smart truck parking in four locations throughout state.
- New operations center in Pueblo to manage traffic & maintenance response in SW CO
- Adaptive traffic signals in Greeley and other locations
- Smart work zone projects to enhance safety
- Optimized snow plow route planning and deployment
- Increased safety patrol services to provide motorist assistance on I-25 and I-70





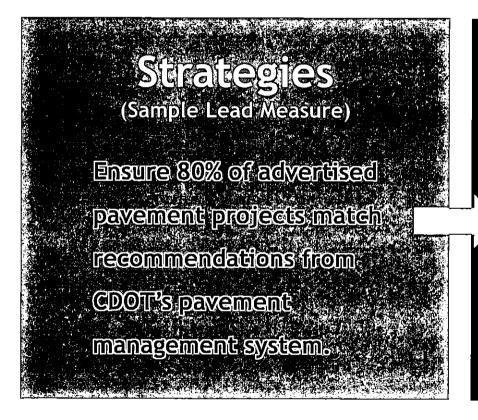
Upcoming Projects

- Building statewide connected vehicle ecosystem and Internet of Roads including 90 miles of connected vehicle infrastructure on I-70 from Denver to Vail, more on C-470, I-25 North, and I-25 Gap
- Smart 25 project with intelligent ramp metering on NB l-25 from Ridgegate to University
- Building Data Analytics Intelligence System to create effective traffic management, weather, fleet vehicle and other data analysis vehicle ecosystem.

Pavement Initiative



Pavement Condition



Goals

(Lag Measure)

Adhieve high/moderate Drivability Life¹² for:

- 75% of lane miles (FY19 goal)
- 65% of lane miles (FY21 goal)

FY18 actual condition = 80%

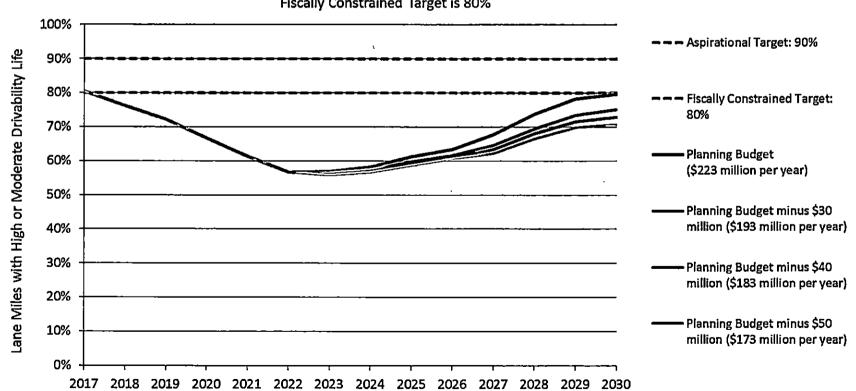
*Drivability Life is a measurement in years of how long a stretch of highway will have acceptable** driving conditions.



Pavement Initiative

Pavement Condition

Percentage of Lane Miles with High or Moderate Drivability Life Fiscally Constrained Target is 80%



Maintenance Initiative



Maintenance

Strategies

(Sample Lead Measures)

- Adhieve a B in snow and feet
 control for FY 19:
- e Ensure that striping addieves 67% minimum reflectivity score.

Goals

(Lag Measure)

Adhieve² a Maintenance Levels of Service (MLOS) grade for the state highway system of:

- B= ((FY19 goal))
- B- (FY21 goal)

FY18 actual grade = B

*Goal based on fiscal constraints





Maintenance Levels of Service (MLOS) by Program Area

Maintenance Program Area Description	FY 18-19 Budget	FY 16-17 Actual FY 17-18 Actual		
Planning, Training and Scheduling	\$17.8M	N/A	N/A	
Roadway Surfacing	\$37.5M	В	B+	-
Roadside Facilities	\$25.0M	C-	B+	-
Roadside Appearance	\$11.0M	D-	В-	_
Traffic Services	\$67.2M	C+	В	-
Bridges & Structures	\$6.3M	В-	B+	
Snow & Ice	\$81.3M	B-	В	
Service Equipment, Buildings & Grounds	\$18.2M	N/A	N/A	
Tunnels	\$6.1M	N/A	N/A	· · ·
US 36 (mtc. contract)	\$2.4M	N/A	N/A	1
OVERALL MLOS	\$272.8M	C+	В	



Process Improvements

TECHNOLOGY

• CDOT R4 (NE CO): "2D hydraulic modeling" during the structural analysis phase of transportation projects saved \$4.4 million; planned implementation in other Regions

HEALTHY MULTI-MODAL SYSTEM

• Friction sensor technology on some Colorado highways has led to the more-precise application of deicers, saving over \$180,000 annually.

TECHNOLOGY

• Streamlining of the <u>Utility Permitting</u> process has reduced permitting time by over 38%

PEOPLE

 CDOT's engagement of frontline employees for <u>Lean Everyday Ideas</u> was recognized as a "2018 Top-25 Innovation in American Government" by Harvard's Ash Center for Democratic Governance and Innovation



Legislative & Regulatory Agendas

Bills:

 Repeal obsolete aeronautics report

Budget Requests:

- Allocate SB 1 multimodal funding
- Allocate SW Chief/Front Range Rail funding (\$2.5m)
- SB267 and SB1 funding

Planned Rule Revisions

Law Enforcement Assistance Fund

• Updating rules with non-substantive changes.

Chain Law

Clarify use of cables and chains for passenger vehicles.

State Highway Utility Accommodation Code

 Review of rules in its entirety to reflect updated practices and legal requirements.

Outdoor Advertising

 Address any changes or improvements in process and seek to simplify existing rules.

https://www.codot.gov/business/rules





