

CDOT Bicycle and Pedestrian Programs

February 14, 2014
Presentation to
the STAC

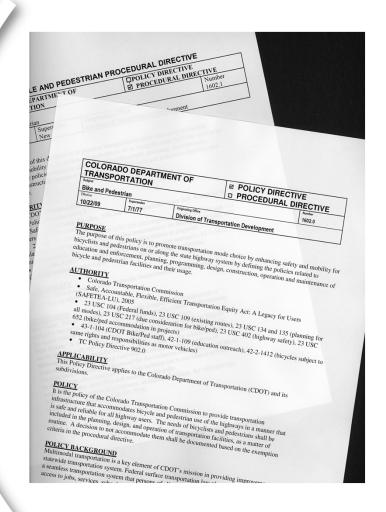
Betsy Jacobsen

CDOT Bicycle/Pedestrian/Byways Section Manager





CDOT Bike and Ped Programs

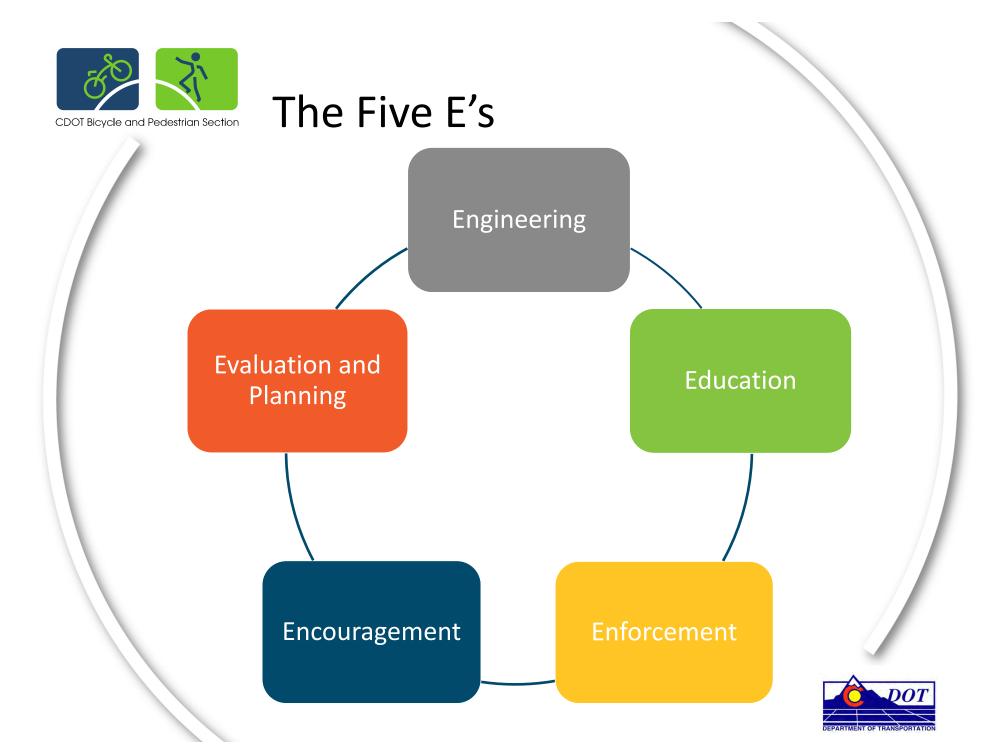


Bicycle and Pedestrian Policy 1602: October, 2009



Colorado State Statute 43-1-120: June, 2010

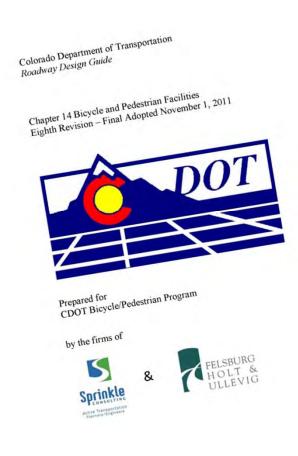






Chapter 14 Bicycle and Pedestrian Facilities

Engineering



Provides designers statewide with clear direction on designs for better accommodating bicyclists and pedestrians





Facility Design Courses





Over 600 engineers and planners have attended







Share the Road

Educating and encouraging all road users to be courteous and safe.







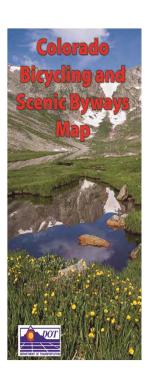
Education

Special Events



Materials









Colorado SRTS Program

Promoting walking and biking to school K-8



- Since 2006, Reached more than:
 - 500 schools and 200,000 students
- Increased children walking and biking to school by as much as 31%
- Increased rate of walking and biking to school in 95% of schools receiving funding





Partnership with State Patrol



Hundreds of special events occur on State Highways every year



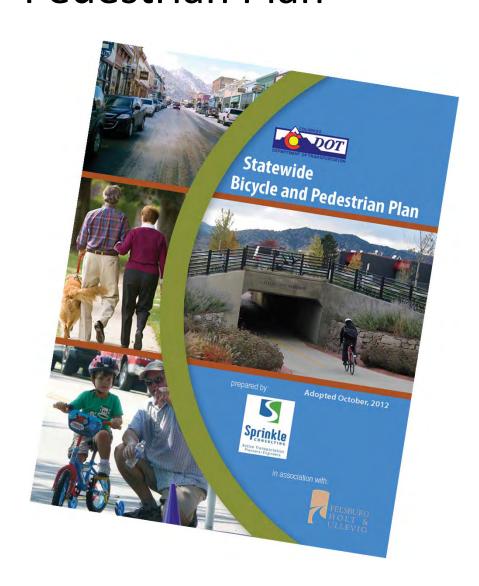






Statewide Bicycle and Pedestrian Plan

Evaluation and Planning







Bicycle and Pedestrian Data Collection

Evaluation and Planning





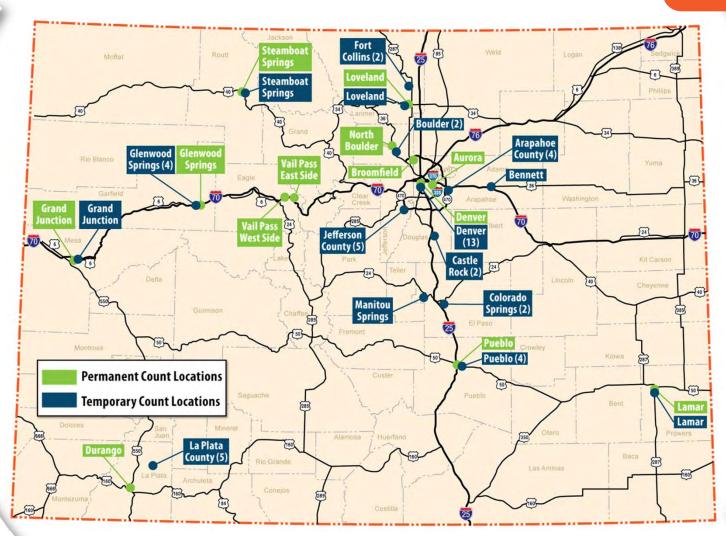






Count Locations

Evaluation and Planning



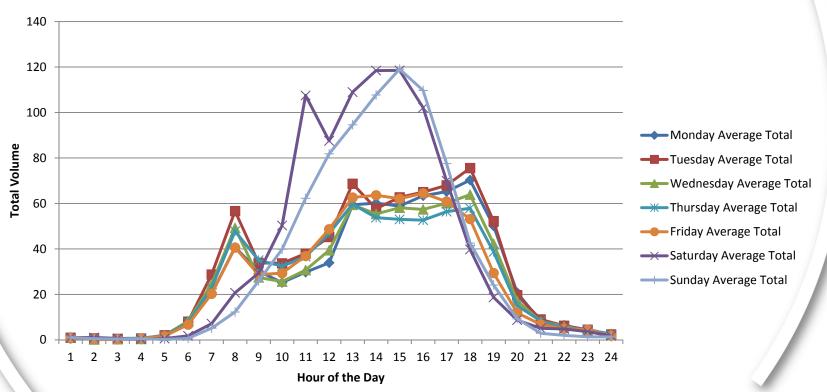




Travel Patterns: Recreation vs. Commuting

Evaluation and Planning

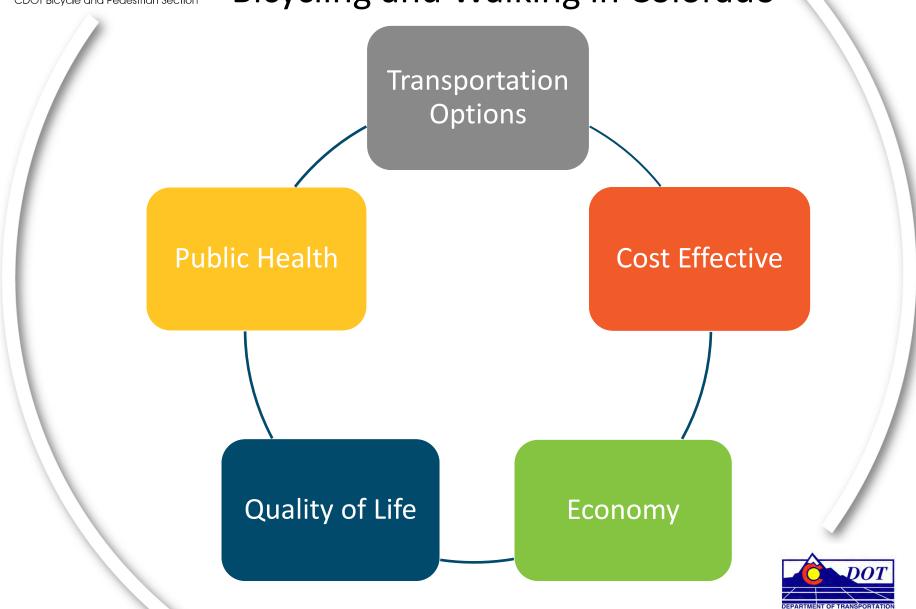
Cherry Creek Trail, Colorado
Bicycle and Pedestrian Traffic
Average Total Volumes
(September, 2009 – April, 2010)







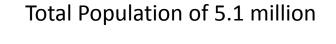
Benefits of Supporting Bicycling and Walking in Colorado

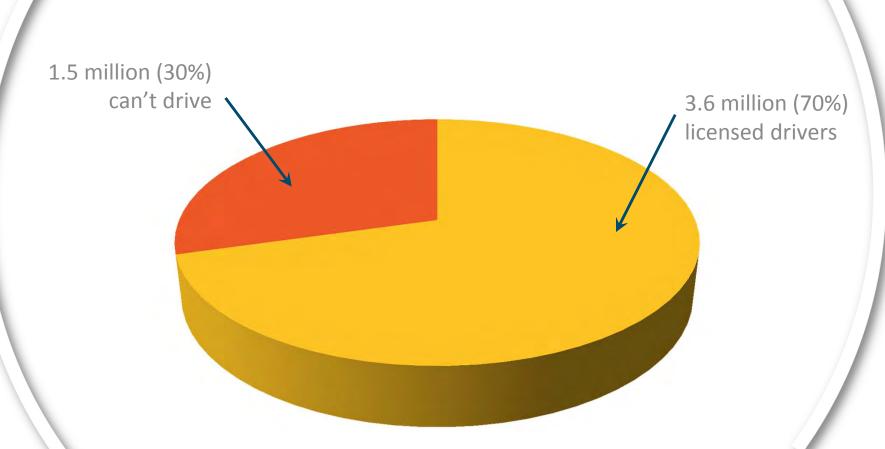




Colorado's Population

Transportation Options





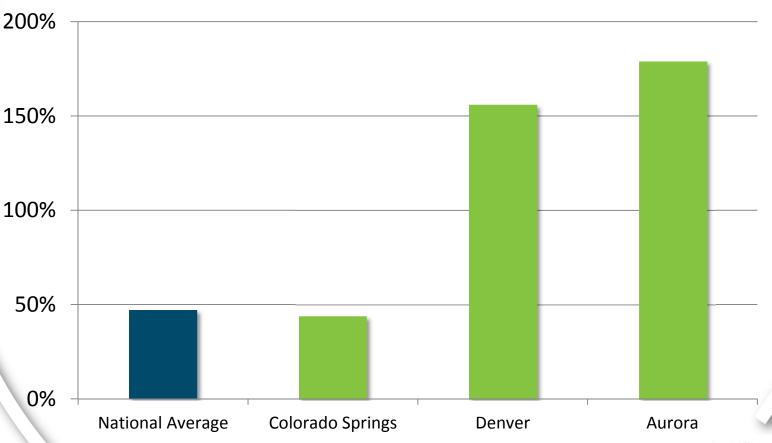






Increasing Usage





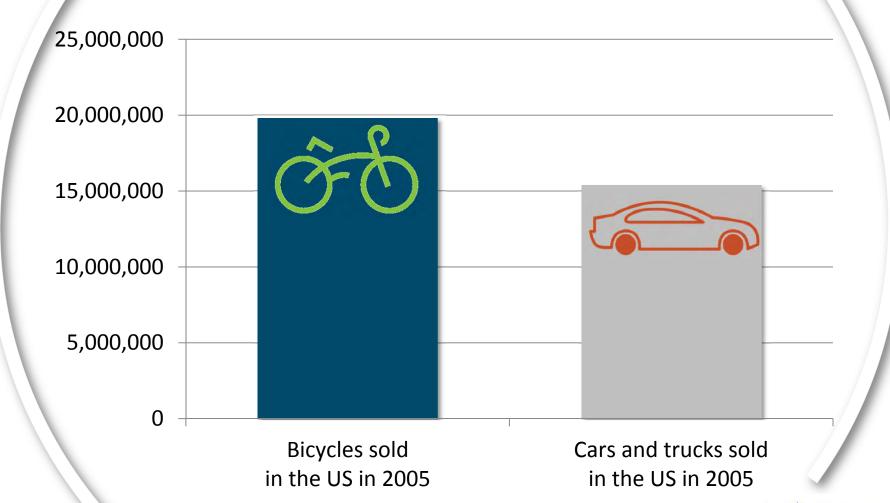
Source: League of American Bicyclists







Bicycle Sales



Source: Bikes Belong





\$30 Million can buy...

Cost Effective

1 mile of highway widening



100 miles of sidewalk



600 miles of quality bike lanes



20 miles of bike trails









Economic Benefits

Manufacturing



Retail



Tourism and Bike Races



\$1 billion economic impact in 2000

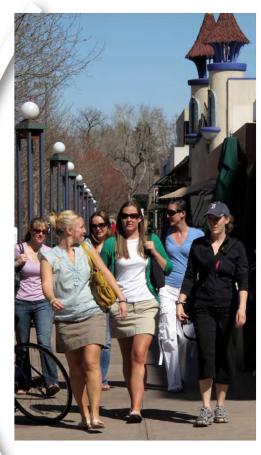
Sources: "Bicycling and Walking in Colorado: Economic Impact and Household Results," April 2000.





Bicycle Friendly Communities: Best Places to Live

Quality of Life





Colorado has 17 Bike Friendly Communities





Safety Benefits

Quality of Life

Designing intersections for pedestrian travel can reduce pedestrian risk by 28%



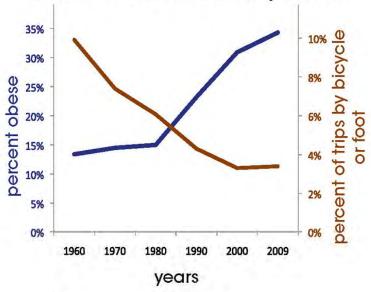
Source: "Pedestrian Safety Through a Raised Median and Redesigned Intersections." *Transportation Research Board 1828 (2003)* King, M., Carnegie, J. & Ewing, R.





Biking and Walking vs. Obesity

Change in Bicycling and Walking Rates vs. Adult Obesity Rates



Legend:

= % of trips to work by bicycle or foot
= % obese

Sources: Ogden and Carroll 2010, Census 1960,1970,1980,1990, 2000, ACS 2009 **Note:** bicycling was not separated from "other" modes in early Census surveys, so 1960 and 1970 levels shown are for walking only; r = -0.93 (bicycle + walk/overweight); r = -0.87 (bicycle + walk/obesity).





Going Forward





Becoming the Number One Bike Friendly State

- An initiative of Governor Hickenlooper
- Ranking is based on League of American Bicyclists
 Annual Survey
- Colorado currently ranks second
- Will take a concerted statewide effort

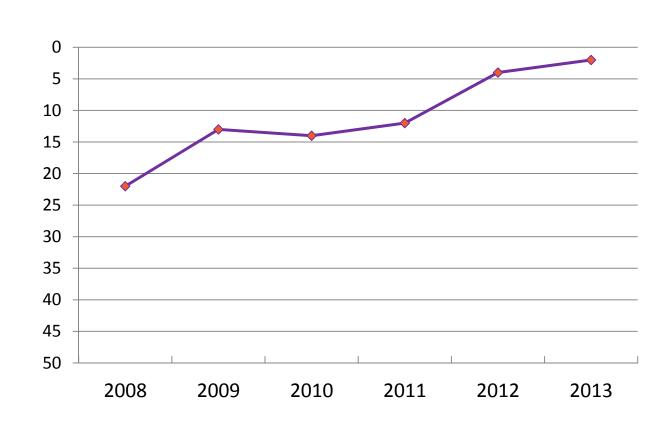






On the Way Up ...

Colorado's Ranking (1 is Best)



Colorado's rankings since 2008





We've Done Well At ...

- Rumble strip policy and specification
- Safe Routes to School legislation and program
- Passage of Bicycle and Pedestrian Accommodation in all projects policy – and later state statute
- Development and adoption of Bicycle/Ped Facility
 Design Chapter 14
- Development and adoption of Statewide Bicycle and Pedestrian Plan
- Specialized trainings on bicycle and ped facilities







Top Five States

_/						
		WA #1	CO #2	OR #3	MN #4	DE #5
	Legislation & Enforcement	5	5	4	4	4
	Policies & Programs	4	4	4	4	3
	Infrastructure & Funding	3	2	2	3	2
	Education & Encouragement	5	4	4	4	4
	Evaluation & Planning	3	2	3	2	2

*Score of 5 is high; 1 is low





Six Strategies



- Establish a statewide bicycle advisory committee
- Add Bicycle Safety to the Strategic Highway Safety Plan
- Implement performance measures
- Implement AASHTO's US Bike Route System
- Adopt a mode share goal for biking
- Dedicate funding for Safe Routes to School Program







Establish a Statewide Bicycle Advisory Committee

Create a governor-appointed committee consisting of diverse representation from across the state to provide input on programs and policies.







Add Bicycle Safety to the Strategic Highway Safety Plan

The Traffic and Safety Branch is examining this as they move forward on their plan.







Implement Performance Measures

- CDOT's Statewide
 Bicycle/Pedestrian Plan calls for
 performance measures, but they
 have not yet been finalized or
 implemented.
- Finalization and Implementation are part of Phase II of the Bicycle/Pedestrian Plan currently under development.







Implement Performance Measures (continued)

- Additional measurements needed:
 - Developing an inventory of bicycle/pedestrian facilities
 - Determining a way to specify funds spent on bike/ped projects when they're part of a larger road project.







Going Forward

Implement AASHTO's US Bike Route System

 The US Bike Routes System is a developing network of bicycle routes across the country. This will take coordination with local agencies as well as neighboring states to determine best routes for designation.



 Funding for appropriate signage will also be required.





Adopt a Mode Share Goal for Biking

- Encourages integration of bicycle transportation needs into all transportation and land use policies.
- As part of the Bike/Ped Plan and the Statewide Transportation Plan, we'll work with the MPOs to develop a mode share goal and add it to PD 14.
- Continued expansion of the Bike/Ped Counting Program will provide more accurate data regarding actual usage.







Dedicate Funding for Safe Routes to School

- MAP-21 eliminated dedicated funding.
- Colorado has received national recognition for its efforts, yet we only have funding approved through 2014.
- MAP-21 TAP funds allow for infrastructure, education, and administration; but SRTS competing against all other TAP projects.





Next Steps:

- Agree on strategies to pursue.
- Agree on funding level to support efforts.
- Coordinate/partner with MPOs and TPRs on strategies to increase ranking.







Thank You!

Betsy Jacobsen

Bicycle/Pedestrian Section Manager 303-757-9982

Betsy.jacobsen@state.co.us

