



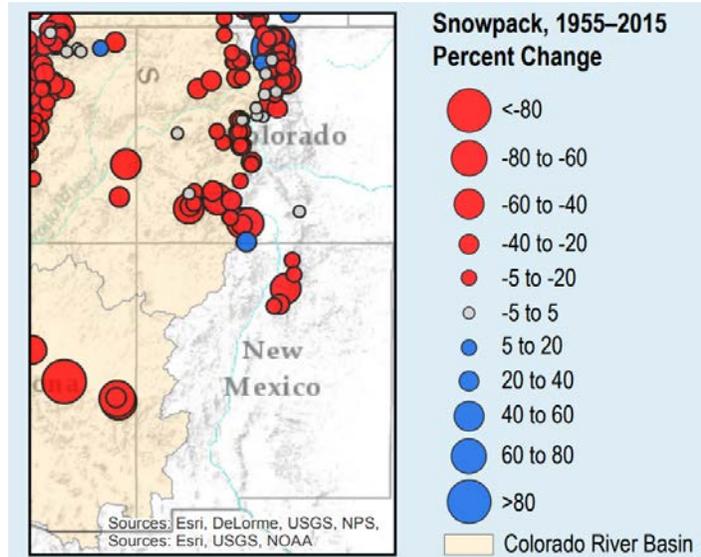
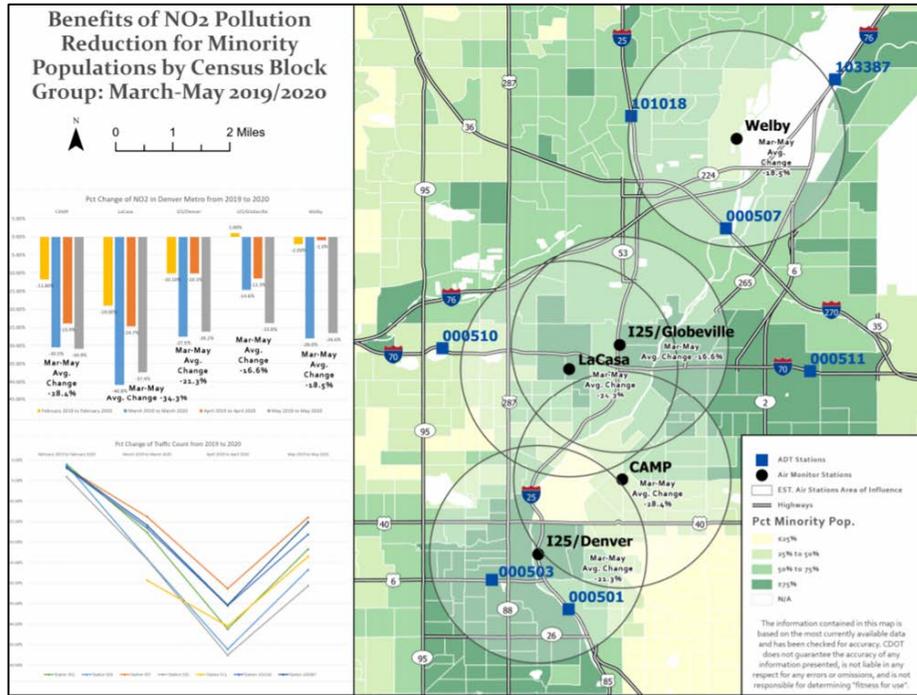
# Greenhouse Gas/Air Quality: Transportation Commission Potential Actions

August 19, 2020



# Reminder: Why are we doing this?

*Climate change is already impacting Colorado's way of life, outdoor recreation industry and the resilience of our transportation infrastructure.*



*Trends in April snowpack in New Mexico and Colorado, 1955–2013. The snowpack has declined at most monitoring sites in both states. Source: EPA.*



Orjan F. Ellingvag / Dagens Naringsliv / Corbis via Getty Images

A RIVER RUNS THROUGH ITSELF

**40 million Americans depend on the Colorado River. It's drying up.**

By Eric Holthaus on Dec 13, 2018

*Poor air quality impacts low-income and environment justice communities disproportionately*



# How does this align with Transportation Commission's goals and authorities?

## Policy Directives & Guiding Principles

- **PD 14:** Sets policy direction and priorities for CDOT. Current version hints at but does not include measures for environment or sustainability. TC is currently reviewing PD for updates.
- **PD 1601:** Outlines the process for 1601 access approvals. TC is currently reviewing the PD for updates, like TDM.
- **PD 1901:** Establish goals and direction of CDOT air quality policy requiring CDOT follow the Air Quality Action Plan, which presents CDOT's strategies on reducing air pollution from the transportation sector and tracks emission trends of criteria pollutants (e.g., CO, PM, and ozone) and greenhouse gases.
- **PD 1905:** Commission direction for CDOT to incorporate the concept of resilience into day-to-day CDOT business and use data related to risk to hazards to inform policy decisions.
- **TC's Current Guiding Principles include focus on mobility:** "Extent to which project addresses a mobility need, including congestion reduction, improved reliability, new or improved connections, eliminations of "gaps" or continuity issues, new or improved multimodal facilities, improves efficiency through technology, or improved access to multimodal facilities."

## Funding

- Directing project selection for new funding sources (e.g. SB267) to include environmental criteria.
- Support for staff efforts to provide technical assistance, research, and implementation of these programs (incl. OIM budget, FTE).



## Questions for discussion

- *What feedback should staff consider as we update various PDs?*
- *Are there other tools that we should consider?*
- *What additional data do you need?*



# TC discussions to implement GHG strategy

- July: Initial TC feedback on available tools
  - Launched clean trucking strategy, including ongoing outreach through August/September
  - Hosted internal GHG workshop (70+ CDOT staff participated)
- August: Focused discussion on near-term actions
  - Finalizing Roadmap report with other state agencies (draft will be available for public comment)
  - Regional Air Quality Commission adoption of an Ozone State Implementation Plan (SIP) for serious nonattainment status. Strategies for this SIP (and possible Severe SIP) have GHG co-benefits
  - Posted new GHG environmental specialist position (modeling and technical capability)
- September: Workshop on FY21 OIM budget; Workshop to update mobility measures within PD 14
- October: Consideration of other tactical actions and update of policy documents; vote on FY21 OIM budget; Workshop to update PD 1601
- November: vote on remaining policy or budget decisions

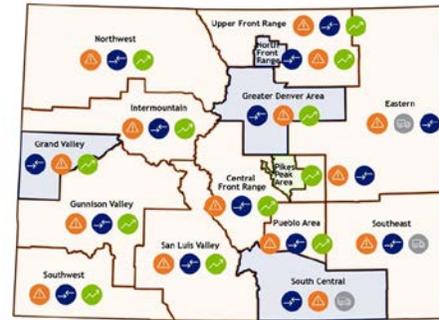
## Mobile sources (vehicles)



Potential action steps include:

- New regulatory actions
- Charging infrastructure
- Consumer education
- Fleet replacements

## Infrastructure (planning and projects)



Potential action steps include:

- GHG conformity budgets
- NEPA processes
- Green construction
- Multimodal funding
- Land use

## Human factors (behavior change)



Potential action steps include:

- Managed lanes/pricing strategies
- Voluntary/mandatory TDM (marketing and tools to support mobility options)



# Mobile Sources: Vehicles

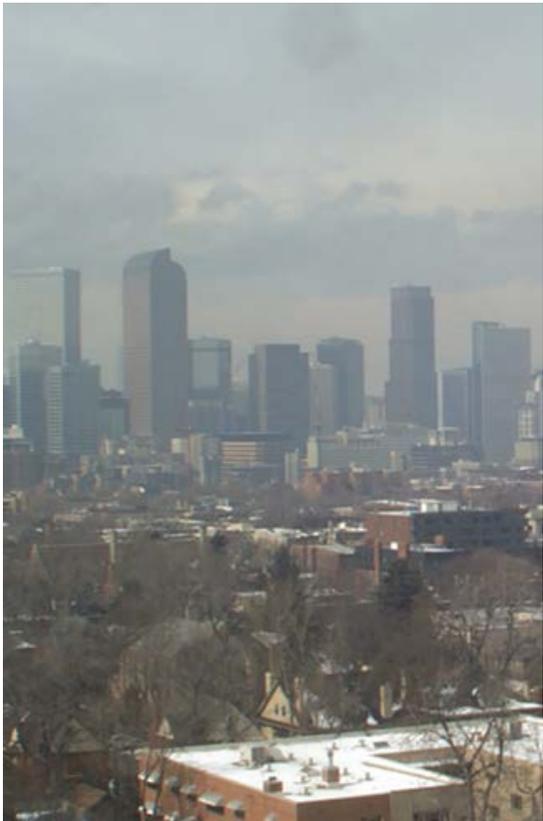
Policy tool	TC Action	CDOT Action
<b>Funding fleet turnover</b>	Update PD 14	Fund projects through existing grant programs (i.e. VW Settlement)
<b>Developing infrastructure to support zero emission vehicles</b>	Update PD 14; support funding for OIM Budget	Fund projects through existing grant programs (i.e. Charge Ahead Colorado), in conjunction with highway corridor projects (light, medium & heavy duty)
<b>Outreach, education and workforce training</b>	Support funding for OIM Budget, Freight Office	Program development underway for light duty and planning funding available for transit; Develop programs for medium and heavy duty
<b>Exploring new business models for shared mobility and last mile delivery</b>	Support funding for pilots through OIM, Freight Office, DTR	Implement pilots in collaboration with industry, local governments; share best practices
<b>Leading by example through green fleet procurement</b>	Update PD 14, support for maintenance and DTR budgets	CDOT procurement policies for Bustang, projects, light and heavy fleet; support “good actors” using cleaner fuels





# Infrastructure: Projects & Planning

Policy tool	TC Action	CDOT Action
<b>Utilizing CDOT Access Control Permits to encourage land use priorities</b>	Update to PD 1601 to include TDM	Follow TC direction and provide technical assistance to local communities
<b>Expand efforts thru NEPA to quantify and mitigate emissions for capacity-expansion efforts</b>	Update PD 14 and 1901	Revise guidance documents for NEPA implementation.
<b>Evaluate updates to the 10yr plan based on GHG goals</b>	Update PD 14 and 1901; revise Commission's guiding principles	Develop framework to evaluate projects
<b>CDOT Green Construction practices</b>	Update PD 14	Implement through CDOT procurement practices
<b>Continue commitment to multimodal funding</b>	Update PD 14	Continued work through DTR and DTD
<b>Utilize CDOT research program to study new technologies and construction methods</b>	Update PD 14	Expand current focus to seek new research ideas in this area

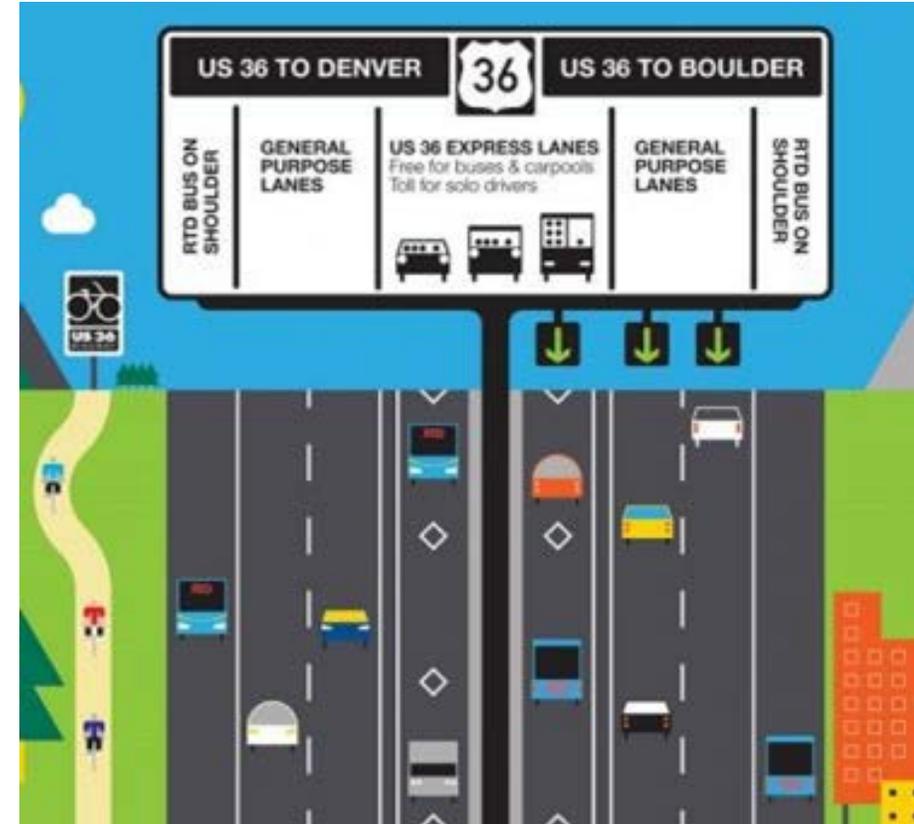




# Human Factors: Behavior Change

Policy tool	TC Action	CDOT Action
<b>Support CDOT and TMAs' existing efforts (including grants) to encourage voluntary TDM</b>	Update PD 14 and PD 1601; support for OIM budget	Continue implementation of TDM grant programs; develop additional technical assistance or funding programs, best practices
<b>Utilizing managed lanes and tolls to control traffic flows, fund expansion projects, and create space for managed uses (i.e. transit-only lanes).</b>	Update PD 14	Consider in any current/future expansion projects. Provide best practices from US 36 experience.

*It will be critical to monitor the impacts of COVID-19 on our transportation system; This includes a continued emphasis on a “new normal” that includes telework for those who can, as well as transportation for essential workers and those who don’t have access to a car.*





- *What feedback should staff consider as we update various PDs?*
- *Are there other tools that we should consider?*
- *What additional data do you need?*