

Transportation Commission September 14 - 15, 2016, CDOT Headquarters Auditorium, 4201 E. Arkansas Ave, Denver, CO 80222

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## Transportation Commission (TC) Workshops Wednesday, September 14, 2016

**Note:** Materials for specific agenda items are available at <https://www.codot.gov/about/transportation-commission/meeting-agenda.html> by clicking on the agenda item on the schedule provided at this site.

### **Transit Overview Workshop (Mark Imhoff)**

#### **Purpose**

The purpose of this workshop is to provide the TC with an overview of the Colorado Department of Transportation (CDOT) Transit Program. A follow-on workshop is planned for the October TC meeting.

#### **Discussion and Comments**

- DTR is reviewing how FTA 5311 transit operating funds are allocated to transit grant partners. This hasn't been done for about 10 years, and needs to be reviewed now that new operators are requesting funding.
- The TC raised concerns over transit operations funding going to support businesses (ski resort areas) that have their own resources to provide transportation services versus funding going to services that provide access to medical centers, hospitals and other key human services in rural areas.
- The TC would like to see the process of reviewing and evaluating the allocation of FTA 5311 come to a conclusion sooner than summer of 2017, which was targeted by DTR.
- Four sample scenario criteria for FTA 5311 funds distribution were presented to the TC for discussion, and will also be presented to the Colorado Association of Transit Agencies (CASTA) for review and comment.
- The TC also requested additional information on the scenarios and how they will impact existing transit grant partners.
- Commissioner Peterson noted that the transit grant program overall has seen a substantial improvement over the past year with the COTRANS tool and other process changes in terms getting invoices paid and keeping transit projects moving.
- The TC requested additional discussions over the next three months or so regarding DTR policy and guidance that informs the transit grants (mainly the FTA 5311 operations grant application selection process).

### **Policy Directive 14 Workshop (Debra Perkins-Smith)**

#### **Purpose**

To report on progress made towards meeting the objectives in Policy Directive (PD) 14 in the areas of Safety, Infrastructure Condition, System Performance, and Maintenance, and review suggested changes.

#### **Discussion and Comments**

- A color-coded table outlining PD 14 performance metric status was distributed, and it was noted that CDOT is not currently meeting several of the PD 14 goals in the areas of safety, system performance (mobility – e.g., Planning Time Index [PTI]), and Infrastructure Condition (e.g., Geohazards and Transit).
- Safety goal has not been met; a primary seat belt law would help significantly, as approximately 33% of fatalities are due to not wearing seat belts.
- CDOT is also evaluating locations where bicycle/pedestrian serious injuries/fatalities have occurred to identify strategies and improvements to increase safety.

- Several proposed changes to metrics were highlighted and rationales for the proposed changes were explained – for example, the PTI goal for System Performance/Mobility was changed due to CDOT moving from use of HERE data to INRIX data.
- Staff recommendations on how to address not meeting specific performance goals, based on projected revenues and revised program investments, are outlined in the Budget Workshop following this workshop.
- The TC did not have comments or questions regarding the proposed performance measure changes outlined.
- No TC action is required today. Next month (October) these revisions to PD 14 proposed will be brought to the TC for formal approval via a resolution.

### **Budget Workshop (Maria Sobota)**

#### **Purpose(s)**

- Summarize the preliminary Fiscal Year (FY) 2015-16 revenue reconciliation and FY 2016-17 Transportation Commission Contingency Reserve Fund (TCCRF) surplus balance reconciliation
- Discuss Transit Asset Management (TAM) request for additional Funding FY 2016-17 and Ongoing, and temporary suspension of federal funds transfer to Bridge Enterprise (BE)
- Summarize the FY 2017-18 revenue projections in preparation for the TC review of the FY 2017-18 Draft Annual Budget in October.
- Present information about the first amendment to the Fiscal Year (FY) 2016-17 Fee for Service Intra-Agency Agreement (IAA), including an expanded scope of work (SOW), between CDOT and the High Performance Transportation Enterprise (HPTE).

#### **Discussion and Comments**

- FY 2015-16 revenues came in higher than estimated, resulting in a surplus of \$85.8 million.
- CDOT will receive \$48.0 million in FY 2015-16 federal redistribution.
- Estimated rollover from the FY 2015-16 Transportation Commission Contingency Reserve Fund (TCCRF) is \$80.1 million.
- In response to PD 14 performance goals staff is recommending that \$15 million federal funds transfer to the Bridge Enterprise for FY 2017-2018 through FYI 2019-2020 be temporarily suspended to use the money for preventative bridge maintenance instead.
- The TC discussed several possible uses for surplus funds, identified by staff. The possible uses support the achievement of mobility and asset management performance objectives, which are not currently being met. These include:
  - RoadX - \$13.75 million to support upcoming initiatives including a Big Data Platform, and the Smart 70 corridor project
  - TSMO - \$11.5 million to support additional traffic management and operations activities, including bottleneck reduction, traffic incident management, and statewide traffic management centers
  - Asset Management – Additional funds for currently underfunded high risk assets including \$1.8 million for Geohazards, \$2.9 million for Tunnels, \$0.9 million for Culverts, and \$4.4 million for Walls.
- It is anticipated the TC will formally approve recommendations for surplus revenues in a FY 2016-2017 monthly budget supplement in October.
- Additional revenues available for the FY 2017-18 budget will include \$167 million of debt service, which is being retired, and FY 2017-18 SB 228 transfers of \$158 million.

- The TC was very impressed with the presentation and had no specific comments on the staff recommendations anticipated for formal approval in October 2016.
- Next steps include determining the appropriate amount of emergency funds for the TC to keep on hand in the TCCRF vs. what should be spent elsewhere in other programs.
- The TC requested a three-year history of emergency projects that have been funded from the TCCRF to get an idea on past expenditures to inform the amount to have available for emergency reserves.
- This information will be discussed more at the next TC meeting.
- The HPTE/CDOT IAA discussion was tabled at the workshop and moved for discussion at the TC Regular Meeting.

### **Resiliency Committee (Josh Laipply and Lizzie Kemp)**

#### **Purpose**

Provide a briefing on the upcoming I-70 Risk and Resiliency Pilot project. The goal of the pilot is to quantify and improve system resilience in advance of future events to better prepare CDOT and reduce future losses. Moving Ahead for Progress in the 21st Century (MAP-21 §1106; 23 USC 119) legislation mandates transportation agencies develop and apply risk-based asset management processes to preserve or improve the performance of the road systems they own. This project will assist CDOT to advance how it complies with the directive and also help inform future maintenance and project selection processes.

#### **Discussion and Comments**

- There is no new funding identified for resiliency, but CDOT is conducting a pilot study to assess all of the I-70 corridor in Colorado for risk and resiliency.
- The TC also stressed the importance of redundancy of corridors in assessing roadways.
- Risk and resiliency may not be a specific program but it is anticipated at least to be an eventual project selection criteria.
- This topic is on the minds of key transportation organizations and agencies such as Transportation Research Board (TRB), American Association of State Highway and Transportation Officials (AASHTO), and federal transportation agencies.
- This pilot project will include all regions and identify risks for CDOT assets and assess how quickly they can rebound from a natural, civil, or dependency/proximity (e.g., utility) threats or hazards.
- Lizzie Kemp of CDOT Region is the Co-Project Manager along with Heather Paddock from CDOT Region 4.
- Consultant is Applied Engineering Management Corporation (AEM). Consultant project lead is Aimee Flannery.
- A Working Group with region representatives has been formed and is anticipated to help with eventual implementation of strategies identified during the pilot study.
- Project has a 1 year time frame and started in August 2016.
- There will be four all-day workshops with the Working Group and report outs to TC will occur shortly after each workshop.
- TC was comfortable with this approach and is very interested in this pilot project.
- An Oversight Committee has also been established with executive/senior management to direct and guide the project process as needed.
- The first Working Group is scheduled for September 27<sup>th</sup>.
- This project will build off of the Risk-based Asset Management Plan and the Colorado Resiliency Working Group efforts.

- Risk Analysis Methodology for Critical Asset Protection (RAMCAP) model will be used to assist with risk identification. It is a seven step process, and is a repeatable and defensible process to assess risk and resiliency of transportation infrastructure.
- TC stressed the importance of being proactive with these types of potential occurrences of damage.
- Assessment includes likelihood or probability to an event – so it considers weather events, even though the extent of climate change is an uncertainty.
- Project will also evaluate redundant paths to service I-70.
- A TC member stressed the need for CDOT to be prepared for emergency response and evacuation that is another aspect of being proactive, but not the same as risk and resiliency planning and assessment activities.
- TC member stressed the importance to not necessarily silo these two related efforts (risk and resiliency assessment and emergency response).

**Technology Committee (Peter Kozinski)**

**Purpose**

To inform the TC and the Transportation Sub-Committee on Technology about progress the RoadX Program has made to date and a vision for how CDOT becomes a leader in integrating innovative technologies into Colorado’s transportation system.

**Discussion and Comments**

- Projections indicate that up to 80% of all crashes could be avoided with anticipated vehicle technology – connected vehicles, autonomous vehicles, and/or automated isolated vehicle applications (like adaptive cruise control).
- Anticipate vehicle and infrastructure technology may also provide up to 50% more roadway capacity with vehicles able to safely travel closer together in queues.
- The true initiation of connected vehicle technology will occur when the National Highway Safety Administration (NHTSA) mandates Dedicated Short Range Communications (DSRC) in all vehicles – this will require transportation infrastructure to support this technology.

**RoadX Projects**

- Commuting project - Managed Motorway is now named Smart I-25 Ridgeway to University; smart ramps are currently successfully deployed in Australia.
- No sustainability projects yet, but evaluating some.
- Transport project - working with National Renewable Energy Lab (NREL) and the Colorado Office of Economic Development and International Trade (OEDIT). OEDIT is assisting with promoting broad band communication infrastructure installation.
- Another RoadX Transport project pilot is to test truck parking technology at six locations in Colorado (truck drivers are alerted in advance of where available truck parking exists).
- Safety – Smart Pavement – related to CDOT’s Division of Transportation Systems Management and Operations (TSMO) and striping and/or embedded LED lights in pavement (eventually embedded digital roadway markers in pavement could replace road striping)
- Smart Roads – use big data (HERE data) to monitor traffic flows – seeking funds for building a big data platform.
- Smart I -70 Golden to Vail using HERE data and testing some DSRC technology.
- Eventually will need to work with the state legislature to ensure regulations do not impede initiation of key technologies. California legislation mandated a licensed driver to be behind the wheel of a vehicle at all times that conflicts with implementation of autonomous vehicle technology.

**Disadvantaged Business Enterprise (DBE) Committee**

- **The DBE Committee held a meeting after the TC September Workshops.** For more details see the workshop agenda tab of the TC Agenda website at: <https://www.codot.gov/about/transportation-commission/meeting-agenda.html>

## **Transportation Commission Regular Meeting Thursday, September 15, 2016**

### **Roll Call**

- Commissioner Barry was excused. All other nine Commissioners were in attendance (with Commissioner Gilliland on the telephone).

### **Comments of Individual Commissioners**

- Extended an invitation to the 25<sup>th</sup> Wine Fest in Grand Junction; Club 20 Weekend in western Colorado occurred last week; Colorado House and Senate candidates visited the western slope area, and US Senate candidates conducted their first debate.
- Numerous county meetings were attended across the state; one breakfast meeting with the Mayor of Aurora was noted.
- Overall CDOT staff is well respected and received at county meetings.
- Jefferson County Transportation Monthly meeting was attended; heard about CDOT projects and a presentation on a new light rail station; key topics were transportation funding and safety.
- TC member attended I-70 Coalition meeting and another attended the International Bridge Tunnel and Turnpike Association (IBTTA) meeting held in Denver; heard about the latest news and technology related to tolling; a key issue is providing seamless transitions between varying types of lanes (general purpose vs. toll lanes) and this is true across state lines too.
- Maria Sobota's presentation on needs and available funds was very impressive.

### **Executive Director's Report (Shailen Bhatt)**

- Purpose of CDOT is to save lives and make lives better
- Bridge Strike on US 6 was a serious situation, but was well handled by CDOT staff. Acknowledged work done by the CDOT team for their responsiveness.
- CDOT awards:
  - American US Chamber of Commerce and American Road and Transportation Builders Association (ARTBA) for I-70 Mountain Express and US 6 Bridge Project for coming in under budget.
- The Truck Rodeo held in Poncha Springs was fun.

### **Chief Engineer's Report (Joshua Laipply)**

- Work Safety Zones have experienced flaggers hit; CDOT Regions are conducting independent reviews and looking at strategies to improve safety longer-term in work zones. TC requested findings of reviews and research on work safety zones be brought back to them for consideration and for an update.
- Local Hiring Grant Award – Conducted a workforce development meeting to determine how to spend this grant money – hoping grant to cover tasks or identify processes beyond the I-70 Central Project.
- Mark Imhoff and David Krutsinger were recognized and received an award for the 2016 Amtrak Presidential Service and Safety Award.

### **High Performance Transportation Enterprise (HPTE) (David Spector)**

- Attended the IBTTA meeting with HPTE Board Chair – Commissioner Gilliland.

- A special meeting of the HPTE Board has been set for 11:30 a.m., Wednesday Sept. 21, 2016, at the E-470 Public Highway Authority Headquarters, 22470 E. 6th Parkway, Aurora 80018.
- Over 100,000 switchable transponders have been registered.

**Federal Highway Administration (FHWA) Division Administrator’s Report (Alicia Nolan for John Cater)**

- End of fiscal year is September 30<sup>th</sup>.
- Congress is to act on authorization of funding by September 30<sup>th</sup> – most likely a continuance will occur if deadline is not met.
- FHWA still has funds to stay in operation due to the Fixing America’s Surface Transportation (FAST) Act.
- Several projects are starting, and Colorado received Transportation Investment Generating Economic Recovery (TIGER) award for I-25 North.
- Increase in crashes has occurred nationwide and in Colorado – safety will be a primary focus at FHWA.

**Statewide Transportation Advisory Committee (STAC) Report (Vince Rogalski)**

Topics covered at the last STAC meeting included:

- A presentation on FTA 5311 (operations) funding program was provided – as a result, the STAC would like to see transit agencies across the state educated on this funding source, its opportunities and limitations. STAC also recommends DTR develop a 10-year business plan to lessen the impact of potential changes being considered for the FTA 5311 program. DTR also needs to develop appropriate performance measures for transit agencies. STAC encourages all transit agencies to attend the next Colorado Association of Transit Agencies (CASTA) meeting to learn more about the FTA 5311 program to be held in Snow Mass at the end of next week.
- A STAC workshop is planned for October and would like to have all TC members to attend; TC Chair noted that both the TC Chair and Vice-chair will be in attendance.
- Alt Fuel Corridor recommendations have been compiled and reviewed by STAC, prior to being submitted to USDOT.

**Act on Consent Agenda – Approved unanimously on September 15, 2016.**

- a) Resolution to Approve the Regular Meeting Minutes of Aug. 18, 2016 (Herman Stockinger) with minor edit (correct reference to state representative vs. state senator)
- b) Region 4 Maintenance Facility (Karen Rowe)
- c) Disposal of Abandoned Woodland Park Maintenance Facility (Karen Rowe)
- d) Property Disposal: SH 287 in Lafayette
- e) Property Disposal: 4th Street Bridge Field Office, Pueblo (Karen Rowe)
- f) Repeal of Policy Directive 387.0 (Herman Stockinger)
- g) Repeal of Policy Directive 500.0 (Herman Stockinger)

**Discuss and Act on C-470 Interagency Agreement (IAA) Approval – Approved unanimously on September 15, 2016.**

**Discuss and Act on Disposal of Properties Associated with the Relocation of Region 4 Headquarters (Johnny Olson) – Approved unanimously on September 15, 2016.**

**Discuss and Act on Disposal of Properties Associated with the Relocation of Region 1 and Statewide Headquarters (Josh Laipply) – Approved unanimously on September 15, 2016.**

**Review and Approve 1st Amendment to HPTE 2016/17 Scope of Work/Fee for Service (David Spector) Approved unanimously on September 15, 2016.**

**Discuss and Act on the 3rd Budget Supplement of FY 2017 (Maria Sobota) - Approved unanimously on September 15, 2016.**

**Larimer County Parcel #15010-00-017 – Approved unanimously on September 15, 2016.**

**Approval of R2 HQ (David Fox, Maria Sobota) – Approved with a vote of six to two with Commissioners Thiebaut and Hofmeister not supporting the majority vote.**

**Safety Update (Darrel Lingk and Charles Meyer)**

- Downward trend for work related injury claims; slight increase from 2015 to 2016, but between 2014 and 2015 a downward trend of 25% was recorded.
- Fatalities – NHSTA reported a substantial increase in fatalities between 2015 and 2016. Colorado has seen a 6% increase in fatalities from last year at this time; a Safety Summit was held to discuss strategies to address this fatality increase. As a result of the summit – action steps in the State Highway Safety Plan have been reprioritized. Numbers are 286 fatalities in 2015 for this time of year vs. 296 fatalities that occurred this year (2016). NHSTA reports that 96% of all crashes involve some human error.
- It is estimated (and believed to be under reported) that distracted driving accounts for 10-12% of the crash fatalities. CDOT is conducting evaluations of the crashes and conducting many public awareness campaigns to discourage distracted driving. In addition other factors for the increases in fatalities include the increase in vehicle miles traveled in the U.S. with international travel considered less safe due to recent terrorist attacks abroad, and also the low cost of fuel.
- Executive Director also pointed out that collaboration with Colorado State Patrol (CSP) is a major effort occurring to improve safety and reduce fatalities on the roads.

**Recognition – Glenwood Canyon Rock Fall Emergency Response**

David Eller, Region 3 Regional Transportation Director (RTD), recognized all the staff and other contributors (FHWA, CSP, and Union Pacific Railroad) to responding and quickly resolving the major Glenwood Canyon Rockfall event that disrupted travel and closed I-70. CDOT staff recognized included Region 3 maintenance and administrative staff, project managers, engineering and design, along with staff from Geohazards, contracts, etc. at HQ and others involved.

**Recognition –Commissioner Connell for Service as Previous TC Chair**

Commissioner Connell was recognized for her service as the previous Chair and given a gavel as a commemorative token from the TC.

**Bridge Enterprise (BE) Committee Meeting**

The BE Committee meeting occurred directly after the Regular TC meeting. See materials posted related to this meeting at: <https://www.codot.gov/about/transportation-commission/meeting-agenda.html> for more details.

**Efficiency and Accountability Committee (Room 225)**

The Efficiency and Accountability Committee was scheduled to meet after the Regular TC meeting.