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Department of  
Transportation

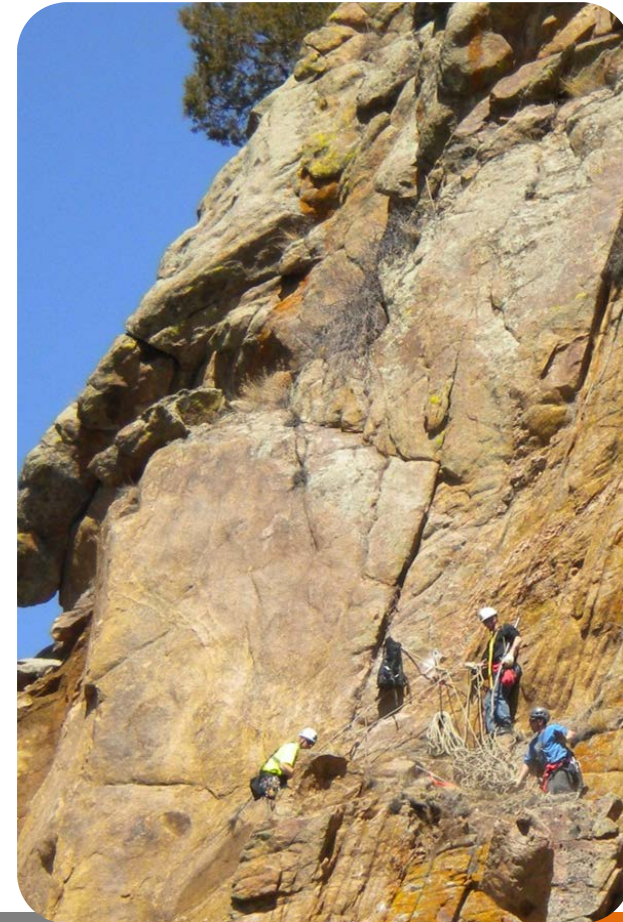
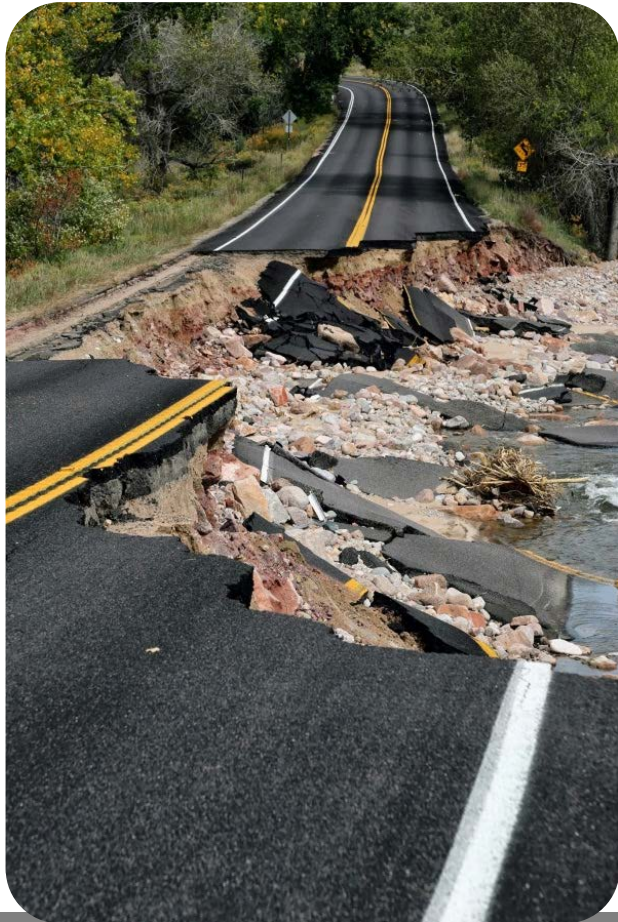


**STIC, Every Day Counts and Innovation**



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# CDOT's STIC





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## **STIC: State Transportation Innovation Council**

- Chartered in July 2014
- **Vision:** To foster a collaborative culture for rapid implementation of innovations to efficiently deliver a modern, high quality transportation system within Colorado.
- **Mission:** Facilitate the rapid implementation of technology, processes, procedures and techniques among transportation program delivery professionals at all levels of government and throughout the private and non-profit sectors to ensure smart, efficient investment in Colorado's transportation infrastructure.



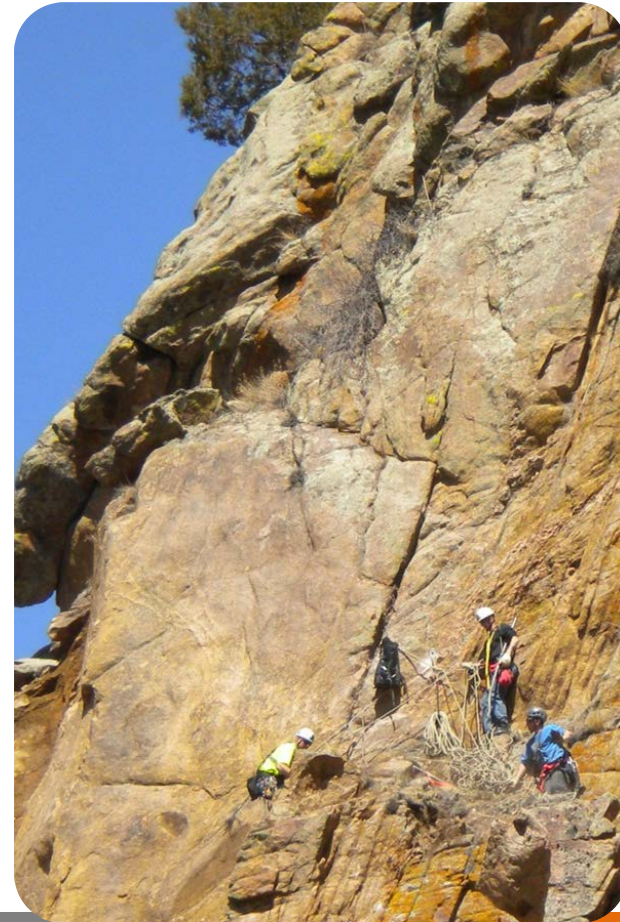
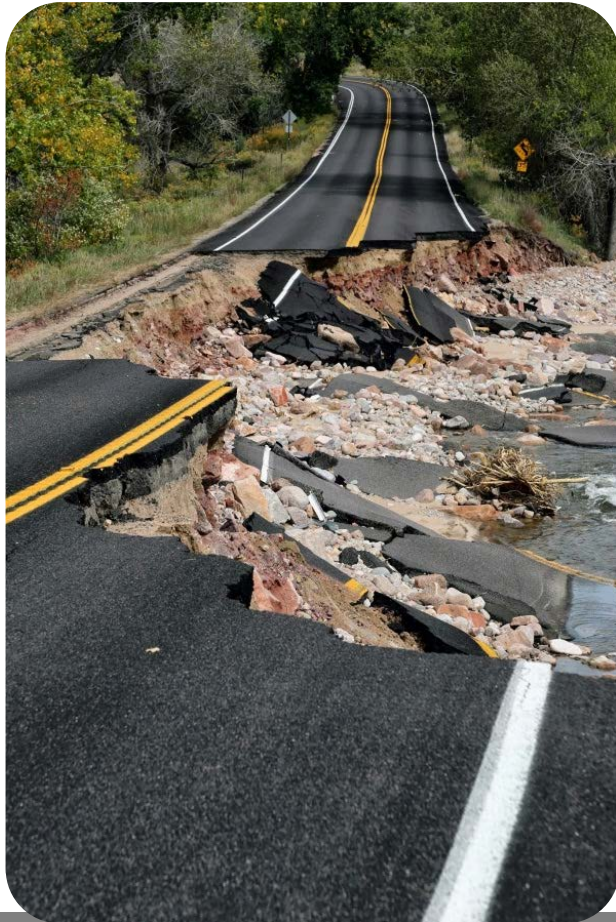
## **STIC: State Transportation Innovation Council**

- Colorado STIC Incentive Program: offers technical assistance and funds, up to a total of \$100,000 per year for all projects, to support the costs of standardizing innovative practices within CDOT and/or other public sector STIC stakeholders.
- FY15 Projects include:
  - Revegetation Training: training to accelerate construction site revegetation to reduce life cycle cost and environmental liability.
  - Lean Everyday Ideas: spreading CDOT's successes with Lean Everyday Ideas to other transportation agencies
  - ITS Plan in Centennial: maintaining and expanding the City's transportation monitoring and management system.



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# CDOT's Deployment of EDC





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## Every Day Counts – Drives Customer Satisfaction



- Accelerated Bridge Construction
  - Precast Elements and SPMT
  - National Slide-In Bridge Construction Training
- Warm Mix Paving
  - Paving outside of normal temperature ranges to extend the work day/night
- Programmatic Agreements
  - Streamlining environmental clearance process
    - Endangered Species - lynx
    - Water Quality
    - Master Railroad Agreements ( \$75,000 SHRP 2 grant recipient)



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# Pecos over I-70

## Innovations

- Round-a-bout
- SPMT Bridge Move
- CM/GC Contracting



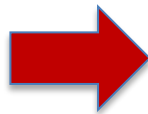


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# Removing the Old and Moving in the New Bridge

## 50 Hours of I-70 Closure







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# Pecos over I-70 Public Survey

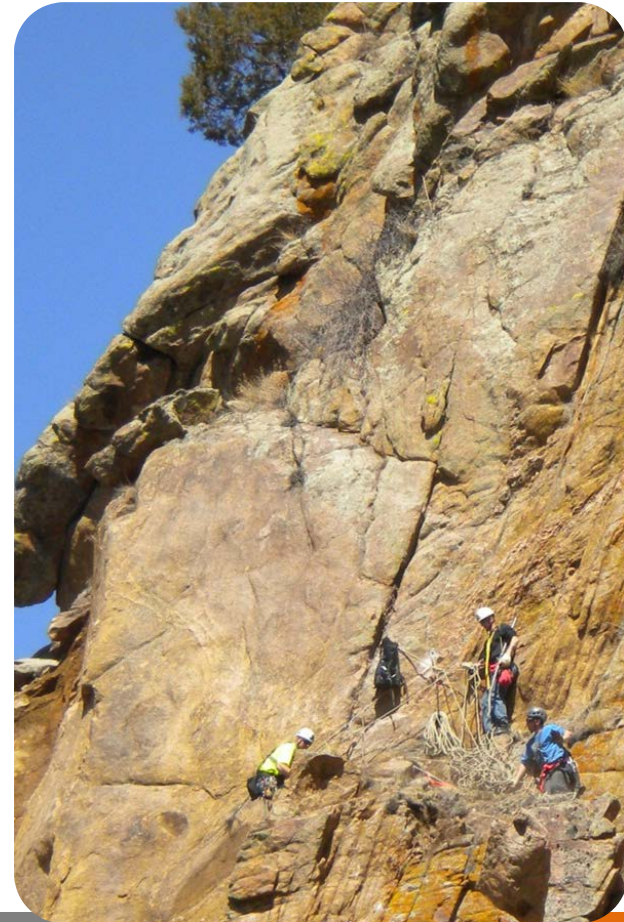
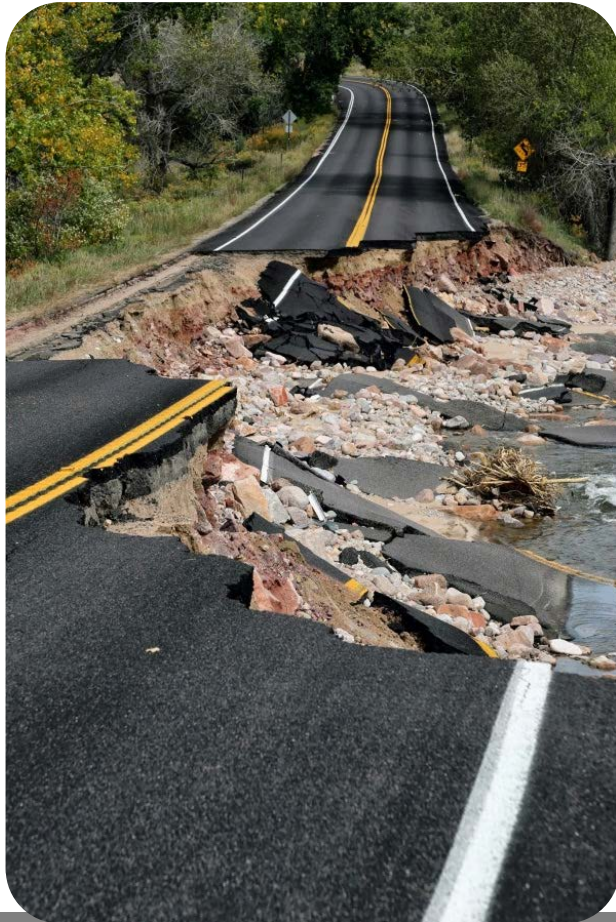
104 Responded

- Roundabout Traffic Flow - 69.9% Satisfied to Very Satisfied
- ABC Construction - 90.4% Satisfied to Very Satisfied
- I-70 Traffic Impacts - 77.8% Satisfied to Very Satisfied
- Local Access Impacts - 63.7% Satisfied to Very Satisfied
- Overall Satisfaction - 85.5% Satisfied to Very Satisfied



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# WHAT'S NEXT, INNOVATIONS? ROAD X PROGRAM

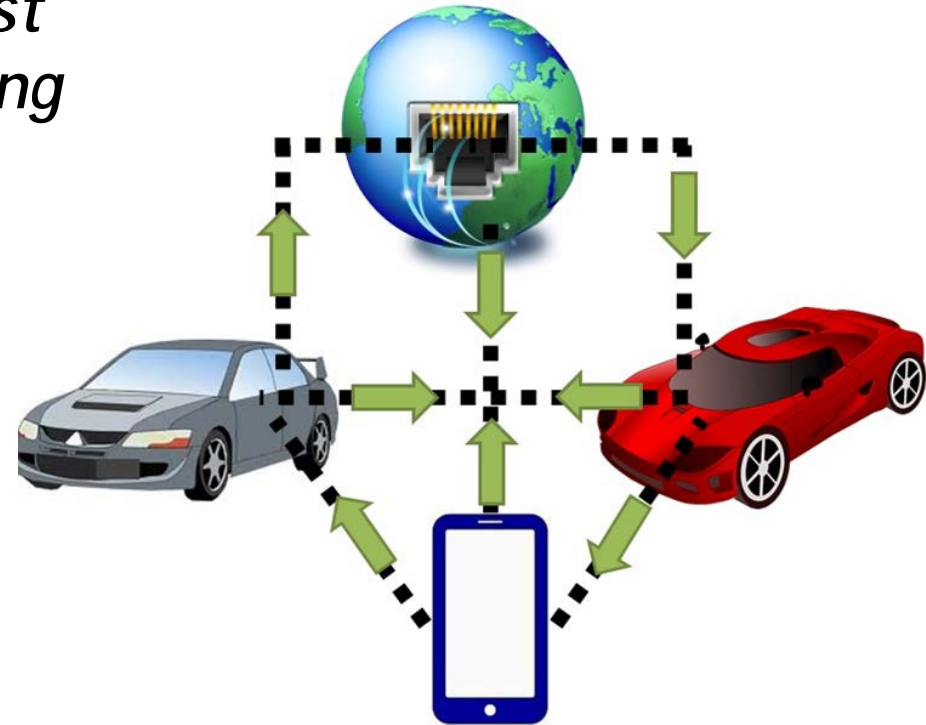




## ROADX

*Transform our transportation system into one of the safest and most reliable by harnessing emerging technology.*

- Congestion Reduction
- Improved Safety
- Increased Freight Mobility





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# Congestion on I-25

## Improve throughput by controlling access and “Manage Motorway”

- Control and networking of all on-ramps, Northbound between Ridgeway and Broadway
- Notice to proceed this Fall
- Partner with Denver to manage arterials
- Source our data for real-time user routing



Denver Metro Area



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# Rural Highway Safety

## Our highest death rates occur on rural highways.

- Vehicle to Infrastructure (V2I) communications
- Dedicated Short Range Communication (DSRC) & Cellular coverage
  - Push notifications of dangerous conditions and hazardous curve data
- Virtual Guardrail?





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# Freight Mobility

## Stimulating and supporting the economy is a primary role of infrastructure

- Partner with industry to reduce supply chain costs
- Truck platooning
- Collision avoidance
- Transport scheduling





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# QUESTIONS?

