



DATE: June 30, 2014

TO: Transportation Commission

FROM: Joshua Laipply, P.E. Chief Engineer, Michael Lewis, Deputy Director, Ryan Rice, TSM&O Director, Amy Ford, Communications Director

SUBJECT: RoadX

Purpose

CDOT is planning the development of a multi-phased program focused on how Colorado becomes a leader in deploying innovative transportation technologies with the focus of addressing our state's transportation challenges and becoming one of the safest and most reliable states in the country.

Action

Information only

Background

Colorado faces several monumental challenges in to make great achievements in travel. These include funding, safety & reliability, economic vitality and a vision for the future. Currently, CDOT owns a transportation system it doesn't have the resources to adequately maintain, rebuild, or expand and CDOT have learned—we cannot just build our way out of congestion.

Details

RoadX is Colorado's bold commitment to our customers to be a national leader in using innovative technology to improve the safety, mobility, and efficiency of the transportation system, fostering the continued economic vitality of our state.

It will be a rapid, fast-paced enterprise to frame how the Colorado Department of Transportation (CDOT) will build tomorrow - today. It will foster an environment where private industry has a direct pipeline to deploy technological solutions to transform an aging transportation system.

The RoadX program will employ a multi-pronged DO-IT (deployment, operations, innovation, technology) approach with the objective of being the most efficient, agile, and flexible system for bringing transportation technology to market. The RoadX program will implement several efforts along the DO-IT spectrum in 2016-18. CDOT plans to partner with private industry and others to deploy advanced technology to reduce the cost of transporting goods; to turn a rural state highway into a zero death road; and to reduce congestion on Colorado's critical corridors.

CDOT will work to establish a dedicated Transportation Innovation Fund for the purpose of researching, testing, and deploying innovative technologies. Proposed funding could come from CMAQ, HSIP and FASTER resources, as well as research. Total investment (assuming the FHWA CV Grant and not counting fiber/cellular expansion or research) and the Budget Plan is forthcoming.



Key Benefits

RoadX will last for many years and require the continued evolution of the Colorado Department of Transportation. Though RoadX may not resolve all of the dilemmas that face Colorado's transportation system immediately, it will surely bring clarity, focus, and public attention to our challenges along with a renewed public trust and confidence in our Department's ability to achieve significant and necessary leaps in transportation, helping to shape Colorado's destiny.

Next Steps

CDOT plans to launch RoadX at the Transportation Matters Summit on October 28. RoadX will be a statewide, collaborative enterprise led by CDOT. CDOT will recruit a project team and executive steering committee to oversee the RoadX program and launch partnership discussions with public partners (other states, research entities and others) and the transportation technology industry to develop and finetune potential projects.

CDOT will also convene the RoadX InnoVisers Council, tapping innovators and advisors from in-state and worldwide, leaders from public and private industry to guide the direction of Colorado's innovative technologies.

CDOT will also be assembling a Budget Plan for presentation to the Transportation Commission later this fall.

Attachments

RoadX One Pager

Transportation Matters Summit Invitation





ROADX

What Is RoadX?

RoadX is Colorado's bold commitment to our customers to be a national leader in using innovative technology to improve our transportation system.

It will be a rapid, fast-paced enterprise to frame how the Colorado Department of Transportation (CDOT) will build tomorrow—today. It will foster an environment where private industry has a direct pipeline to deploy technological solutions to transform an aging transportation system.

RoadX Vision: Transform Colorado's transportation system into one of the safest and most reliable in the nation by harnessing emerging technology.

RoadX Mission: Team with public and industry partners to make Colorado one of the most technologically advanced transportation systems in the nation, and a leader in safety and reliability.

Why Is Now the Time for RoadX?

Today we face several monumental challenges in our fundamental endeavor to make great achievements in travel. These include funding, safety & reliability, economic vitality and a vision for the future.

We are heirs to a system we don't have the resources to adequately maintain, rebuild, or expand and we have learned—we cannot just build our way out of congestion.

How Will RoadX Be Implemented?

DO-IT

Deployment

The RoadX program will employ a multi-pronged DO-IT (deployment, operations, innovation, technology) approach with the objective of being the most efficient, agile, and flexible system for bringing transportation technology to market.

Operations

Innovation

Technology

The RoadX program will implement several efforts along the DO-IT spectrum in 2016-18.

CDOT plans to partner with private industry and others to deploy advanced technology to reduce the cost of transporting goods by 25%; to turn a rural state highway into a zero death road; and to improve congestion on Colorado's critical corridors.

The Future of Transportation: RoadX

Colorado Is Open for Business: Colorado invites partners to join us in accelerating the adoption and deployment of technological solutions in five focus areas—connect, transport, commute, safety and integrate.

To learn more and help craft the future of transportation please contact us.

Email: dot_roadx@state.co.us

Web: codot.gov/programs/programs/roadx



TRANSPORTATION MATTERS | SUMMIT October 28, 2015

Colorado Building Tomorrow, Today

Grand Hyatt Denver

Join business and industry leaders, policy makers and community partners as we focus on transforming Colorado's transportation system by harnessing emerging technology.

1 afternoon

3 state dot directors

4 interactive break-outs with technology pioneers

Featuring United States Department of Transportation Secretary Anthony Foxx

We are in the midst of a technological leap in transportation.

your bottom line
technology in transport can energize our roads and your business

your time
your commute and our congestion can be redefined by technology

your life
zero deaths on our roadways is achievable

your money
technology can intersect with our transportation system funding



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