



COLORADO

Department of
Transportation

2829 West Howard Place
Denver, CO 80204

MEMORANDUM

TO: TRANSPORTATION COMMISSION
FROM: AMY FORD, CHIEF OF ADVANCED MOBILITY, RYAN D. RICE, DIRECTOR, DIVISION OF TSM&O
DATE: AUGUST 15, 2018
SUBJECT: TECHNOLOGY COMMITTEE

Purpose

To inform the Transportation Commission and the Technology Committee on CDOT's Statewide Fiber Optic Master Plan effort and other related topics.

Action

Information only

Details

CDOT's fiber optic network is critical to improve safety and mobility through operations strategies and support connected and autonomous vehicle infrastructure. The expansion of CDOT's fiber optic network is critical over the next five to ten years to make significant improvements in safety and mobility throughout the State. Over the past several months, the Intelligent Transportation Systems (ITS) Branch in the Division of Transportation Systems Management and Operations (TSM&O) has been updating its Statewide Fiber Optic Master Plan as a major component of the Smart Mobility Plan. In June, the Transportation Commission received information in the Technology Workshop on the Smart Mobility Plan and the Statewide Fiber Optic Master Plan. In July, the Transportation Commission received information on the Internet of Roadways V2X (vehicle to everything) deployment plan, which is a major component of the Smart Mobility Plan.

This Technology Committee workshop will focus on updating the Commission on the Statewide Fiber Optic Master Plan, which is in final draft form, as well as public-private partnerships for fiber optics and other related topics.

Attachments

Attached slide presentation.





INTELLIGENT TRANSPORTATION SYSTEMS

AUGUST TRANSPORTATION COMMISSION UPDATE





FIBER PLANNING & DEVELOPMENT

PRESENTATION SUMMARY...



PLANNING



PEOPLE



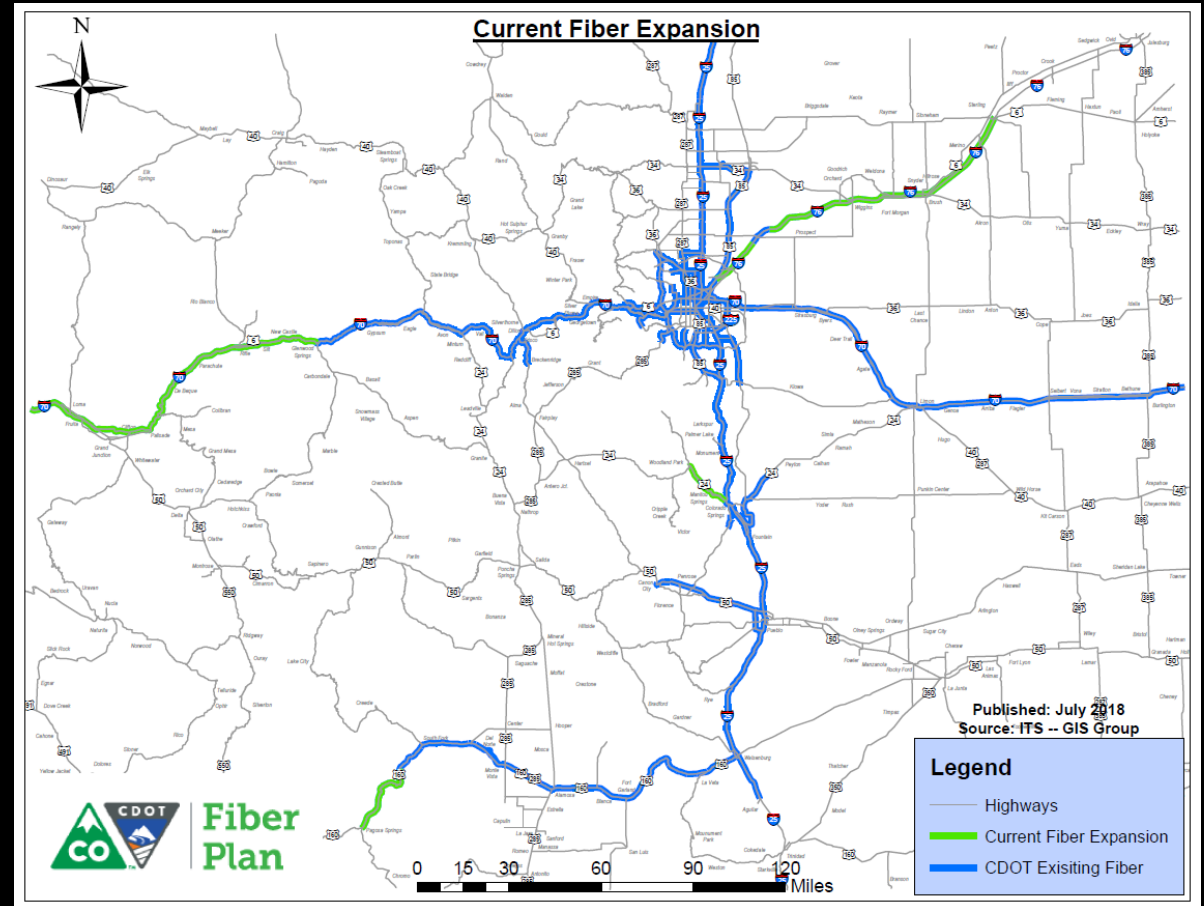
PARTNERSHIPS



FIBER PLANNING & DEVELOPMENT

Fiber Planning, the foundation...

- Develop a 10 year fiber and network strategy to support the future transportation network with connected and autonomous vehicles.
- Identified routes based on a weighted factors, which include CDOT Region input, economic development and public safety needs.
- Building blocks to the Smart Mobility Plan.





FIBER PLANNING & DEVELOPMENT

Building Partnerships to expand CDOT's fiber footprint...

- Opportunities to partner with Public and Private organizations come to CDOT in many forms.
- Once an opportunity is identified, the entity submits a Unsolicited Proposal to ITS Planning.
- ITS Planning, who chairs Fiber Management Team (FMT) will present the opportunity to the FMT to review and approve.
- Once the terms and conditions are ironed out, ITS Planning submit to the appropriate State and CDOT Departments for finalization.



FIBER PLANNING & DEVELOPMENT

P3s, why are these partnerships important...

- Fiber Private Partnerships have brought approximately \$8 M per month in fiber assets in 2018 in exchange for access to the Rights-of-Way
- Create an environment that fosters **communications & technology** advancement for **ALL** of Colorado
- Improve community and State **resiliency**
- Promote **economic development**
- Grow an **interoperable** and **consistent** transportation network system
- To **expand information networks** while leveraging the existing transportation “hard” infrastructure
- **Collecting data** to create **thoughtful, informed decisions** to improve our transportation network, while **enhancing technology abilities locally**





DISCUSSION



CONTACT INFORMATION

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