



Cell Phone Connectivity Interim Study Committee CDOT Overview

Department of Transportation





What we do today

Land Leases for Cellular Towers

CDOT offers overall Master License Agreements ("MLA") and individual Site License Agreements (each an "SLA") to allow for the installation, operation, and maintenance of communications facilities by requestors on certain CDOT Properties.

- Primary Owner of Tower
 - 3 categories of land lease types:
 - **Prime Urban** (\$35k per year; Counties over 200k pop.)
 - **Urban** (\$25k per year; Counties 20,001-200k pop.)
 - Rural (\$15k per year; Counties under 20,001 pop.)
- Colocation User
 - Primary Owner pays 50% of their sublease revenue.

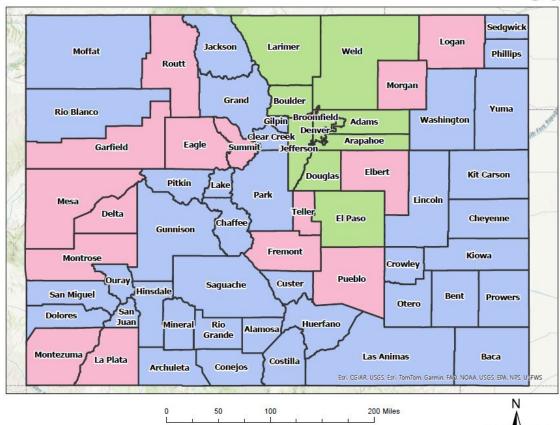
- Program At-a-Glance
 - 26 contracts
 - \$611k annual lease fees
 - 6 renewals in process.
 - Governed by:
 - 23 CFR 710.403 (e) (Management of Part 710 Right-of-Way and Real Estate)
 - CRS 43-1-210 (3) and (4) (Acquisition and disposition of property)





What we do today

CDOT Cell Tower Pricing (yearly)



Map of CDOT Cell Tower Pricing per year. Counties are put into one of three categories: Rural, Urban, or Prime Urban.

Effective: 2/1/2023. Cost escalates by 3% annually for all categories. 7/9/2024

Counties

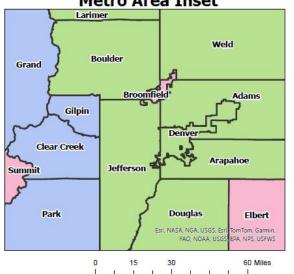
Category

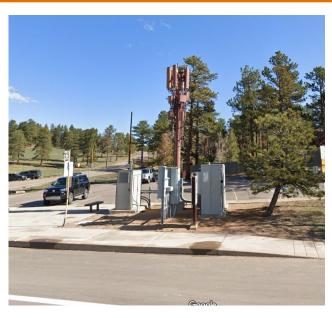
Prime Urban - \$35,000.00

Urban - \$25,000.00

Rural - \$15,000.00

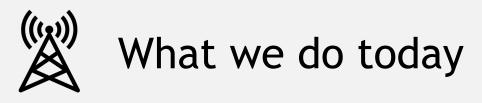
Metro Area Inset











Permits for Small Cell Towers

As required by FCC 20-75, CDOT implemented Utility/Special Use Permit for Small Cell Facilities and has been compliant with these requirements. The requirements informed the <u>terms and conditions</u> for Permit for Small Cell Facilities issued by the CDOT.

- New Pole
 - \$1,000 for non-recurring fees (i.e. not a collocation) intended to support one or more Small Cell Facilities
 - \$270 per Small Cell Facility per year, including any possible ROW access fee or fee for attachment to CDOT owned structures in the ROW
- Colocation User
 - \$500 non-recurring fees for up to five small wireless facilities, an additional \$100 for each Small Cell Facility beyond five.
 - \$270 per Small Cell Facility per year, including any possible ROW access fee or fee for attachment to CDOT owned structures in the ROW

- Program At-a-Glance
 - Fees were set by FCC and could be adjust by the DOT under specific conditions.
 - 91 Permits
 - \$67.5k total permit fees over 4+ years.
 - Governed by:
 - 2012 Spectrum Act 6409(a)
 - <u>FCC 18-133</u> (Management of Part 710 Right-of-Way and Real Estate)
 - <u>FCC 20-75</u> (Accelerating Wireless and Wireline Broadband Deployment by Removing Barriers to Infrastructure Investment)





What we do today

Small Cell Permit Fees







Glenwood Canyon Mudslide July 2021

Situation: Burn scars from previous year and additional rains, created mudslides throughout the Canyon. No wireless coverage or feasible infrastructure. In additional, radio system was unstable, first responders and CDOT crews were unable to communicate while responding to the emergency and rescues.

Contacted Verizon and AT&T (FirstNet), Verizon deployed Cellular on Wheels ("CoW") within hours and AT&T had their permanent small cell network live on the railroads for emergency communications within a few weeks.

CDOT Intelligent Transportation Systems ("ITS") designed remote cameras that monitored the most vulnerable areas via this new cellular emergency service.









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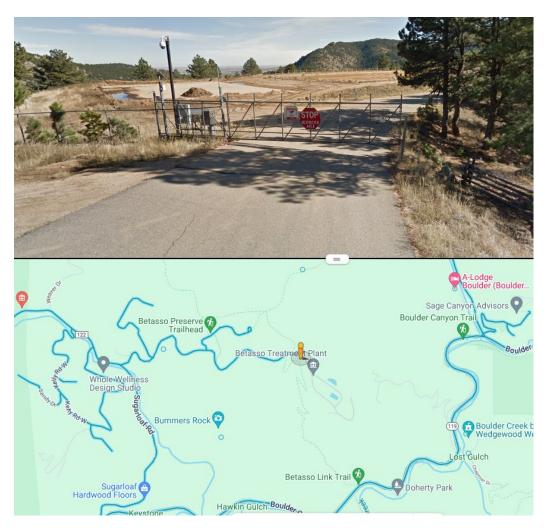


Highway 119 November 2019

Situation: Rock scaling required 4 hour road closures. Additionally, unexpected boulders come down during scaling that required heavy machinery to remove, taking several hours longer than expected. Constituents concerned about access to emergency services, children at school and communications.

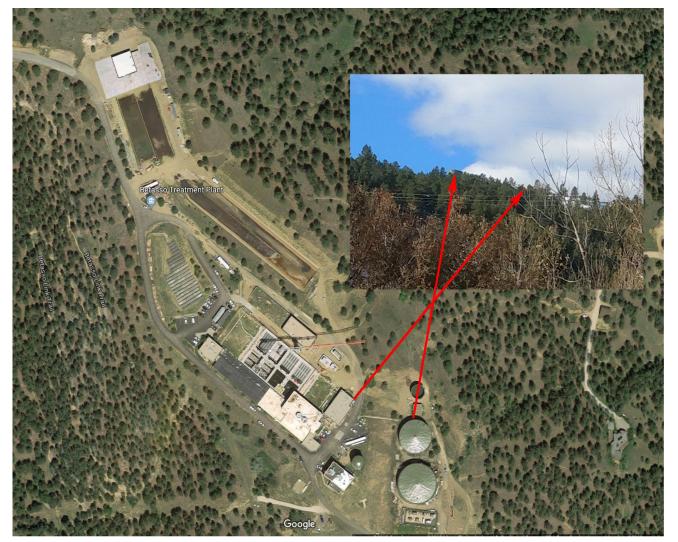
Contacted Verizon and AT&T (FirstNet), no line of sight and were unable to provide Cellular on Wheels ("CoW") for emergency communications.

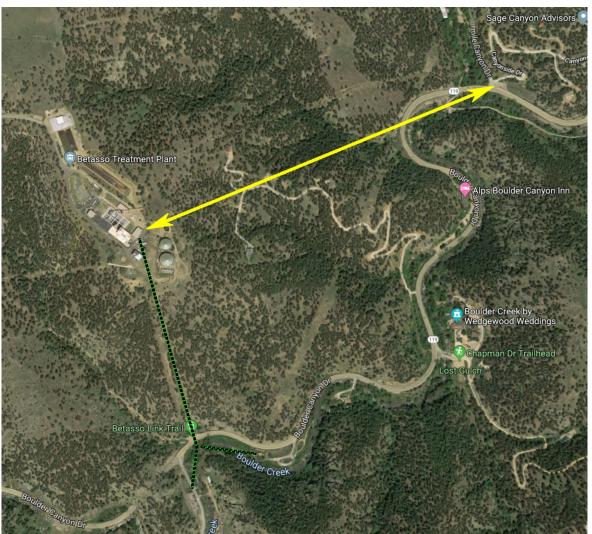
CDOT Intelligent Transportation Systems ("ITS") designed Fixed Wireless Wi-Fi solution for free Wi-Fi to be broadcasted in the canyon, partnering with the City of Boulder.









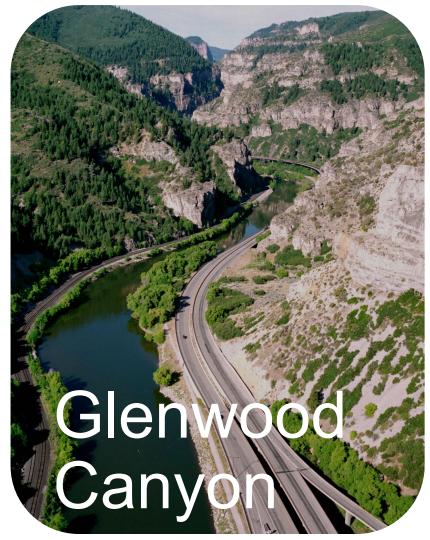


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When we don't have









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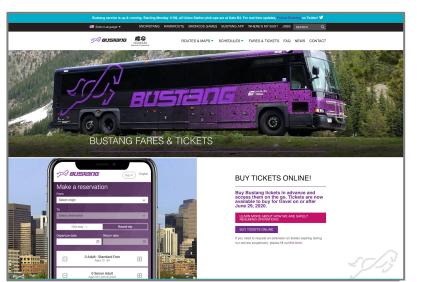


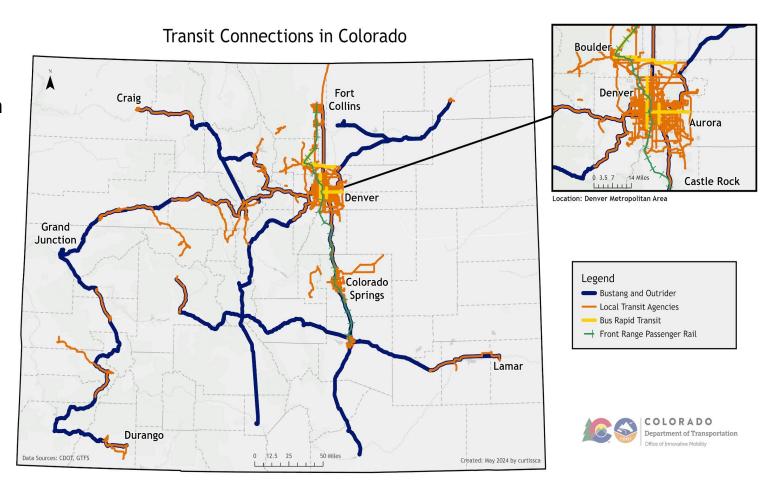






- A connected and integrated Colorado mobility platform for transit.
- A system where people can find the information needed to travel seamlessly in Colorado using transit.



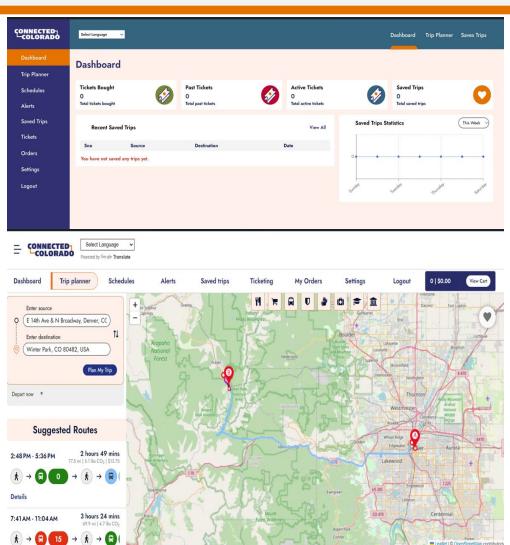






Phase II Prototype Partners







Commercial Vehicle Impacts



- Permit (40 different permits between Port of Entry and CDOT, examples below:)
 - Purchase fuel & trip permits for DOR (out of state plates/CMV).
 - Oversize/Overweight
- In-cab technology now includes collision avoidance systems, lane departure warnings, and fatigue detection.
- In-cab technology also provide critical messaging including advance warning on low-bridge, steep grades and traffic slowdowns based on geofencing.

These features contribute to a safer driving environment, reducing the risk of accidents and promoting overall road

safety.



















Contact

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