



**COLORADO**

**Department of  
Regulatory Agencies**

Executive Director's Office

July 6, 2018

Senate Agriculture, Natural Resources, and Energy Committee  
Senate Business Labor and Technology Committee  
House Transportation and Energy Committee  
House Business Affairs and Labor Committee  
State Capitol Building  
Denver, Colorado 80203

Dear Committee Members:

The attached report by the Broadband Deployment Board is hereby submitted in accordance with section 40-15-509.5 (9) C.R.S.

If Committee Members have questions or would like additional information, please contact me at [jordan.beezley@state.co.us](mailto:jordan.beezley@state.co.us).

Sincerely,

A handwritten signature in black ink, appearing to read 'Jordan Beezley'.

Jordan Beezley  
Broadband Deployment Director





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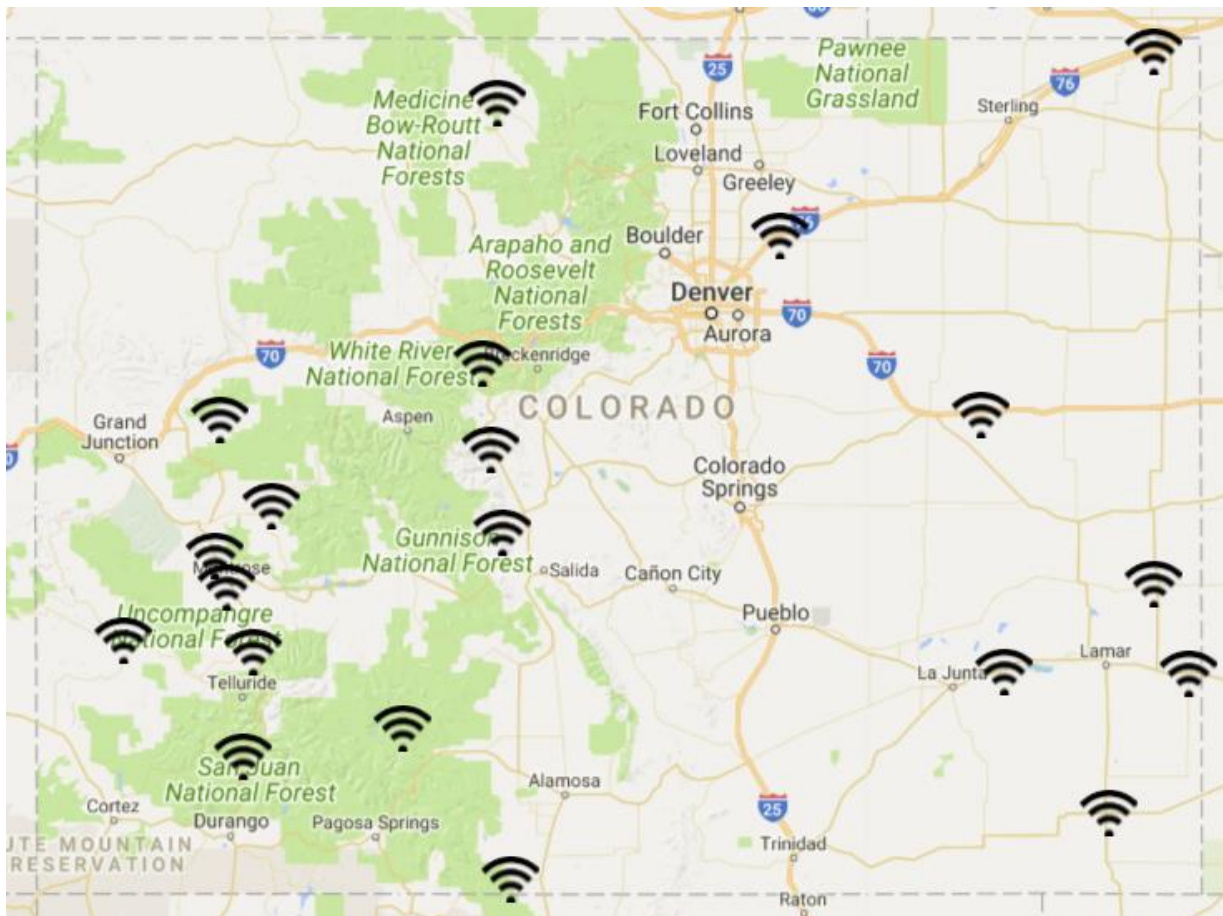
Executive Director's Office



Annual Report of the  
Broadband Fund and Broadband Deployment Board  
to the General Assembly  
July 1, 2018

Pursuant to section 40-15-509.5 (9) C.R.S. the Broadband Deployment Board (Board) is required to report annually on the projects supported by the Broadband Fund including the number of projects; the location of each project; the amount of funding received for each project; and a description of each project.

The Broadband Deployment Board awarded \$11,505,483 in grants from the Broadband Fund to seventeen rural broadband infrastructure deployment projects. When complete the projects will provide broadband access to over 13,000 households.



Broadband Fund Grant Project Locations

## Broadband Fund Grants

<b>16-0083</b>	<b>Nucla-Naturita Telephone Company</b>			
	Gobblers Knob Upgrade			
Budget	Total Project Cost	\$57,779	Funds Awarded	\$43,334
Project Status	Complete			
Project Summary	The project is a microwave enhancement of the grantee's Gobblers Knob site located approximately 6 miles west of Nucla, to the San Miguel Basin area, via the grantee's microwave site at Pony Draw. The enhancement will be accomplished with a 2 hop microwave capable of 700 Mbps. The microwave will connect to an Adtran TA5000 DSL shelf supplying the 48 connected households with broadband internet access.			
<b>16-0084</b>	<b>NE Colorado Cellular, Inc. dba Viaero Wireless</b>			
	Sheridan Lake, Towner and Brandon Project			
Budget	Total Project Cost	\$634,799	Funds Awarded	\$395,452
Project Status	Complete			
Project Summary	The grantee will construct two 195 foot towers designated as Sheridan Lake North, located approximately 9.52 miles Northwest of Sheridan Lake and Sheridan Lake South, located approximately 10.4 miles South of the Sheridan Lake. 3.65 GHz TDD base stations and associated antenna and transmission lines will be installed on each tower of the new towers and on each the existing Towner and Sheridan operated by the grantee. Microwave radios and associated antenna and transmission lines will be installed on each of the new towers.			
<b>16-0085</b>	<b>Chaffee County Telecom LLC, dba Colorado Central Telecom</b>			
	Twin Lakes and Southern Lake County Project			
Budget	Total Project Cost	\$384,452	Funds Awarded	\$288,338
Project Status	Complete			
Project Summary	The project requires the construction of two new tower sites: One at the Granite heliport and another at Sugarloaf Mountain near Turquoise Lake. Colorado Central Telecom will incorporate both 4G LTE and Wi-Fi 802.11ac MIMO in its last-mile fixed wireless infrastructure. Grantee's last-mile microwave links will be backhauled through the Granite heliport site. From there, the Granite site will be backhauled to Colorado Central Telecom's Methodist Mountain tower using a licensed Trango GigaPlus 2+0 microwave radio. Backhaul for the Methodist tower can be routed to either Center, Salida or Nathrop via a licensed microwave Trango GigaPlus 2+0 radio.			

<b>16-0086</b>	<b>CenturyLink Inc.</b>			
	Hudson and Keenesburg Project			
Budget	Total Project Cost	\$299,200	Funds Awarded	\$299,156
Project Status	Complete			
Project Summary	<p>The grantee will upgrade (5) Digital Subscriber Line Access Multiplexer's (DSLAM) located at (1) 450 5th Ave Hudson, (2) 605 Ash Hudson, (3) 374 Woodard Ave Keenesburg, (4) 7799 Weld County Rd 59, Keenesburg, (5) 80 S Main Keenesburg. Grantee will install fiber to the DSLAM's located at (1) 450 5th Ave Hudson, (2) 605 Ash Hudson, (3) 374 Woodard Ave Keenesburg, (4) 7799 Weld County Rd 59, Keenesburg, (5) 80 S Main Keenesburg. Grantee will test all equipment and ensure Broadband internet access with at least 25 Mbps download and 3 Mbps upload and sufficient latency to allow for real-time communications to the last mile connections identified in the Right of First Refusal Written Plan.</p>			
<b>16-0087</b>	<b>PC Telcorp, Inc., dba PC Telcom</b>			
	Ovid, Sedgwick and Julesburg Project			
Budget	Total Project Cost	\$85,232	Funds Awarded	\$55,400
Project Status	Complete			
Project Summary	<p>Grantee will replace existing Alvarion wireless access points and antennas with Telrad LTE wireless access points and antennas on the "Sedgwick Tower" and "Julesburg Tower." Work will include running new cables, installing equipment, adjusting equipment and testing equipment to ensure service of at least 25 Mbps downstream and 3 Mbps upstream speeds with latency that allows for real-time communications.</p>			
<b>16-0088</b>	<b>Optimus Communications LLC</b>			
	Collbran Colorado and Eastern Plateau Valley Project			
Budget	Total Project Cost	\$150,000	Funds Awarded	\$112,500
Project Status	Complete			
Project Summary	<p>Grantee will purchase and install wireless microwave backhaul equipment at the Optimus Communications LLC main office in Grand Junction. This equipment will connect to new microwave backhaul equipment purchased and installed by grantee on the existing Palisade Point tower on the Grand Mesa. The Palisade Point equipment will connect to the Cable Head End building in Collbran CO. Grantee will use Cisco routing equipment and DOCSIS 3.0 system for internet distribution over the cable infrastructure. Grantee will purchase, build and install a solar powered communications site with a microwave link from Palisade Point to the Vega tower. Grantee will purchase and install three 120 degree 5.8Ghz antenna and three 5.8 Ghz radios at the Vega tower. Grantee will purchase and install an additional microwave link from the Cable Head End to the Plateau City tower. Grantee will purchase and install four 90 degree 5.8Ghz antenna and 12 AC 5.8 Ghz radios at the Cable Head End tower and the Plateau City tower.</p>			

<b>16-0089</b>	<b>CenturyLink Inc.</b>			
	Ridgeway			
Budget	Total Project Cost	\$841,200	Funds Awarded	\$841,200
Project Status	Complete			
Project Summary	The grantee will upgrade eight Digital Subscriber Line Access Multiplexer's (DSLAM) located at: (1) 97 Chipeta Dr., (2) 1000 Clinton, (3) 265 N Lena, (4) 501 W Otto, (5) 109 Village SQ, (6) 222 Vista DR (7) 125 S Lena ST (8) 309 Sherman.			
	<p>Grantee will install fiber to the DSLAM's located at (1) 97 Chipeta Dr., (2) 1000 Clinton, (3) 265 N Lena, (4) 501 W Otto, (5) 109 Village SQ, (6) 222 Vista DR (7) 125 S Lena ST (8) 309 Sherman.</p> <p>Grantee will test all equipment and ensure Broadband internet access with at least 25 Mbps download and 3 Mbps upload and sufficient latency to allow for real-time communications to the last mile connections identified in the Right of First Refusal Written Plan. At least 750 of the locations served must have availability of speeds of 100/10, at least 100 of the locations served must have availability of speeds of 40/20, and at least 140 of the locations served must have availability of speeds of 40/5.</p>			

<b>16-0090</b>	<b>Futurum Communications Corporation, dba Forethought.net,</b>			
	<b>Brainstorm Internet</b>			
	Red Cliff			
Budget	Total Project Cost	\$93,471	Funds Awarded	\$70,103
Project Status	Complete			
Project Summary	From the CenturyLink Fiber Demarc, grantee will install fiber through two Ski Cooper buildings, trenching from edge of Ski Cooper building to Lift Hut and through existing conduit from Hut. At the Lift House grantee will construct a mount, engineered by manufacturer to the Lift House infrastructure. On this structure grantee will install a 4ft. Dish pointing to Red Cliff. At Red Cliff a reciprocal licensed radio will be installed on 80ft tower being built by the Town of Red Cliff. Grantee will deploy LTE Fixed wireless radio equipment from the Red Cliff tower. LTE fixed wireless will deliver 25MB/5MB and potentially higher speeds as standard evolves. Grantee will purchase, install and test all equipment ensuring broadband internet service to the Town of Red Cliff of at least 25 Mbps download and 3 Mbps upload with latency sufficient to enable real time communications.			

<b>17-0001</b>	<b>Delta Montrose Electric Association</b>			
	Paonia, Olathe and Happy Canyon in Delta and Montrose Counties			
Budget	Total Project Cost	\$6,615,480	Funds Awarded	\$2,646,192
Project Status	Project Underway			
Project Summary	The project will build out of three service areas: Northwest Paonia, Olathe and the Happy Canyon area outside of the City of Montrose. The project will provide fiber to the premise broadband service to 1,731 residential addresses and 213 business addresses. The project area has a population of 4,159. The applicant provided a list of 40 "community anchor institutions" that would receive service as part of the proposed project. Much of the fiber will be located on existing DMEA utility poles and conduit.			
<b>17-0002</b>	<b>NE Colorado Cellular, Inc. dba Viaero Wireless</b>			
	Arriba, Genoa and rural Lincoln County			
Budget	Total Project Cost	\$1,384,529	Funds Awarded	\$1,038,397
Project Status	Project Underway			
Project Summary	The grantee will construct two new towers and upgrade equipment on three existing towers to provide service in Arriba, Genoa and rural Lincoln County. Last-mile service provided via fixed wireless, fiber to the towers is used for backhaul.			
<b>17-0003</b>	<b>San Luis Valley Rural Electric Cooperative</b>			
	Hermit Lakes, Ptarmigan Meadows, Pearl Lakes and Spring Creek HOA			
Budget	Total Project Cost	\$939,298	Funds Awarded	\$700,402
Project Status	Project Underway			
Project Summary	The grantee will provide broadband service over a fiber to the home network utilizing existing electric utility poles in rural Mineral and Hinsdale Counties along CO Highway 149. The project will serve 278 homes and 20 businesses.			
<b>17-0004</b>	<b>Inventive Wireless of Nebraska, LLC dba Vistabeam</b>			
	Jackson County			
Budget	Total Project Cost	\$392,313	Funds Awarded	\$260,313
Project Status	Project Underway			
Project Summary	The grantee will construct eight new towers and use three existing towers to provide broadband service over the 5ghz unlicensed spectrum. The project would provide service to 639 residential addresses and 82 business addresses in Jackson County.			

<b>17-0005</b>	<b>Brainstorm Internet Inc.</b> South San Juan County - Cascade Village			
Budget	Total Project Cost	\$455,000	Funds Awarded	\$268,500
Project Status	Project Underway			
Project Summary	The grantee will extend fiber from the Purgatory Ski Area approximately 4 miles to Cascade Village, a development with 199 residential addresses and the Benchmark Events and Cultural Center. Last-mile service would be provided using fiber with 1 Gbs symmetrical service.			
<b>17-0006</b>	<b>AlignTec Incorporated</b> Collbran Colorado and Eastern Plateau Valley Project			
Budget	Total Project Cost	\$867,200	Funds Awarded	\$592,729
Project Status	Not Started			
Project Summary	The project will provide fiber to the premise internet access to 84 addresses in the Deer Valley Estates located approximately 5 miles Northeast of the Bayfield town limits.			
<b>17-0008</b>	<b>Jade Communications LLC</b> Conejos, Paisaje, Mogote, Fox Creek, Aspen Springs, Bear Creek, Sheep Creek, Conejos Valley, Ponderosa, & Hocra			
Budget	Total Project Cost	\$3,663,756	Funds Awarded	\$2,372,817
Project Status	Project Underway			
Project Summary	The grantee will construct a fiber to the premise project in Conejos County spanning approximately 20 miles along CO17 west of US 285 and Antonito. The project would provide service to 829 residential and 34 businesses and community anchor institutions addresses.			
<b>17-0012</b>	<b>SECOM Inc.</b> Las Animas, Springfield and Holly			
Budget	Total Project Cost	\$1,591,807	Funds Awarded	\$1,193,855
Project Status	Project Underway			
Project Summary	The project would provide service up to 200/200Mbps via a fiber to the premise network to Las Animas, Springfield and Holly.			
<b>17-0013</b>	<b>Chaffee County Telecom, LLC dba Colorado Central Telecom</b> St. Elmo, Chalk Creek Canyon in Chaffee County			
Budget	Total Project Cost	\$435,727	Funds Awarded	\$326,795
Project Status	Project Underway			
Project Summary	The project will provide 257 addresses with 25/3 service in the Chalk Creek Canyon corridor just south of Mt. Princeton in Chaffee County. The project will utilize a microwave backhaul and combined fiber to the premise and 3.65GHz LTE last mile solution. The project will also provide public Wi-Fi to the St. Elmo downtown corridor.			