

STEP

SUCCESS STORY

SOLVING THE DIGITAL DIVIDE IN COLORADO:

Extending Fiber Network into the Homes of Students & Faculty

Brush SD partnered with STEP CG to construct a Private LTE network utilizing tech from Nokia and Taoglas.

Client: BRUSH COLORADO SD

Solution: PRIVATE LTE



1,500+ Students

Avoid Loss of Study Time



360 Degree

Coverage



2 Outlying Communities

With Challenging Connectivity

1 Challenges:

COVID as well as other drivers, including weather events and underserved communities contributed to students missing important classroom time. School closures further highlighted the need to extend the classroom into the home – particularly in outlying areas with no connectivity options. Local macro carrier networks were not up to the task.

3 Outcome:

STEP took advantage of Colorado's geography and lack of foliage to successfully deploy a highly redundant PLTE solution to provide a signal 9+ miles from the tower locations at the schools. Home access to Brush SD's network was extended via CBRS into 80% of student and faculty homes – without any of the monthly recurring costs that macro carriers impose. Best of all, the school year was able to commence without interruption.

2 Solutions:

Leveraging market-leading technologies in Private LTE, STEP chose Nokia equipment for education builds and remote areas, paired Taoglas antennas for connection to the R-500 in homes to provide access on the PLTE system. Brush SD was able to secure a grant from the state of Colorado to fund the entire project.

Why STEP?

STEP is an award-winning, nationwide IT services engineering firm known for providing cutting-edge services and solving complex IT challenges through a blend of experience and expertise. STEP is not just a vendor but a partner - ready to meet your needs promptly and efficiently.

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