

# KCTC

## Executive summary

Kalona Cooperative Telephone Company ("KCTC") would like to expand the territory of its CLEC operations to the rural area between the towns of Kalona and Washington in Washington County. The targeted service area is north of Washington along Highway 1 on the West, and also a triangle along the northside of Washington where the potential customers are underserved in that area. The entire rural area is underserved/unserved in this community that KCTC is seeking funds to build fiber to this area. There are many individuals and corporations (as many are working from home) to be served in these areas so the customer can work and operate from home.

Kalona Cooperative Telephone Company ("KCTC") Broadband Infrastructure Project will increase speeds and capacity which will facilitate telehealth and telemedicine. KCTC's fiber-based network will allow health care providers to remotely monitor patients' vital signs, ECG, or blood pressure and allow remote doctor-patient consultation. KCTC's fiber-based network will allow health care providers to remotely monitor patients' vital signs, ECG, or blood pressure and allow remote doctor-patient consultation. The KCTC network will help facilitate telehealth and telemedicine applications. A high-speed network is vital to assist doctors and other health professionals to monitor patients remotely using real-time video without capacity constraints. Telemedicine also requires enhanced features to help doctors accurately diagnose conditions. In many cases higher speeds such as 100/20 are needed in order to optimize the value of such applications. The enhancement in network speeds and capacity provided by the KCTC Broadband Infrastructure Project will facilitate the use of telehealth and telemedicine for those served by the project.

Kalona Cooperative Telephone Company ("KCTC") Broadband Infrastructure Project will facilitate increased telework capabilities. The KCTC fiber-based network will provide the speeds and capacity necessary for high functioning video meetings such as Microsoft Teams, Zoom video, Google Meet, and WebEx. Using our high-speed network, individuals working from home will be able to upload and download large files and will not be constrained in their abilities due to the slower current network speeds. In many cases higher speeds such as 100/20 are needed in order to optimize the value of such applications. Our high-speed network will help prevent network congestion and will allow at home workers to be as productive as if they were in the office. This will help prevent the spread of COVID-19 to coworkers and business partners. In addition, individuals who have been impacted by the pandemic through job losses can not only search for alternative employment, but may find alternative employment that requires the use of a high-speed network like KCTC's network built using funds offered through this program.