



KCNA

Capital Plan – Overview

*KentuckyWired Critical Infrastructure
Upgrades & Purchases*

Doug Hendrix, Executive Director
Kentucky Communications Network Authority
June 14, 2023

ABOUT US

- The Kentucky Communications Network Authority (KCNA) is a statutorily-created state agency established to manage the KentuckyWired network and reports to a statutorily-created board
- KentuckyWired is a statewide, middle-mile broadband network consisting of over 3,300 miles of fiber optic cable constructed to reach every county in Kentucky
- KentuckyWired is primarily a middle-mile network, or backbone, that also provides service to state government offices, public universities, community colleges, and other public customers
- KCNA leverages a Service Provider through our agreement with the KentuckyWired Operation Company (KWOC) to manage the network
- Kentucky is the first state in the nation to build a statewide, open-access, fiber optic cable network to every county
- The network currently transports traffic for 386 Executive Branch agencies and 39 KCTCS campuses
- When migrations are completed, the network will transport traffic for 764 locations

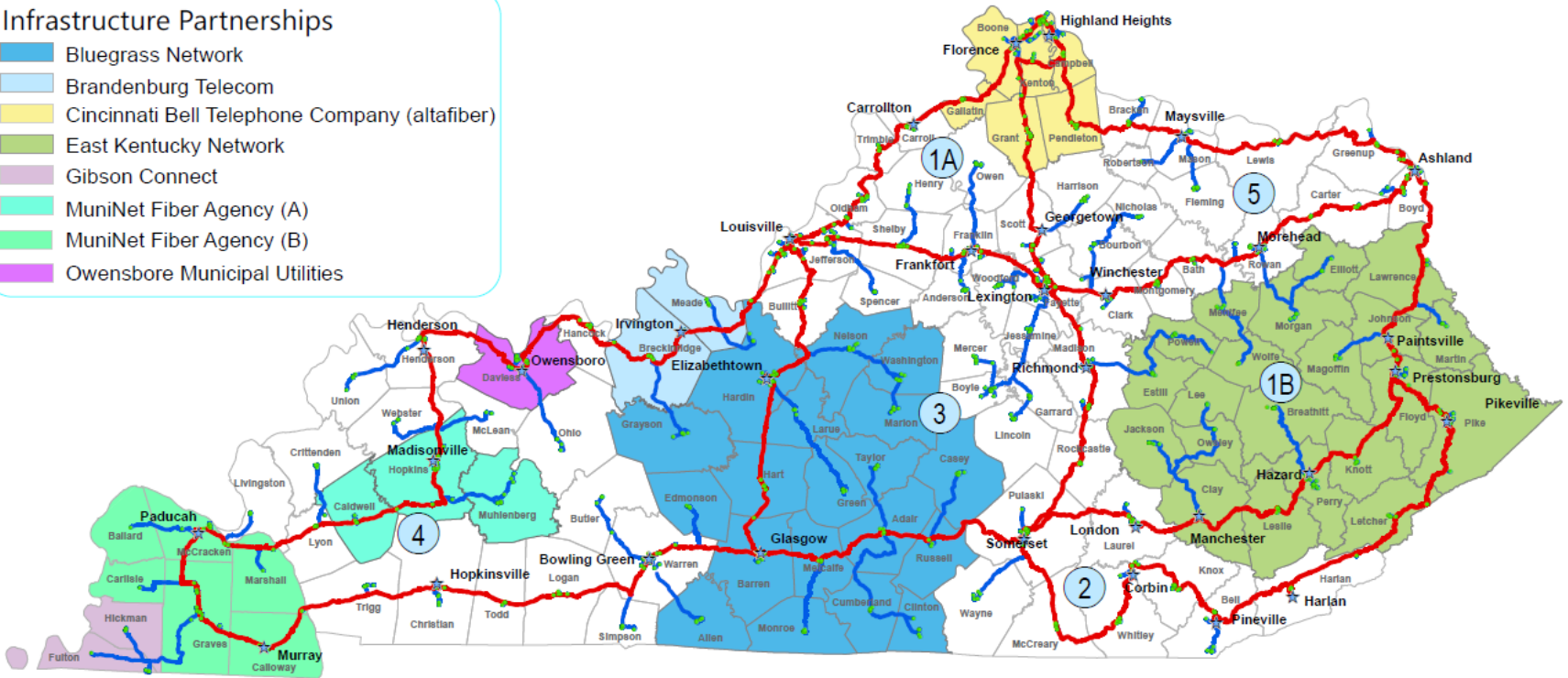


KENTUCKYWIRED MAP



Infrastructure Partnerships

- █ Bluegrass Network
- █ Brandenburg Telecom
- █ Cincinnati Bell Telephone Company (altafiber)
- █ East Kentucky Network
- █ Gibson Connect
- █ MuniNet Fiber Agency (A)
- █ MuniNet Fiber Agency (B)
- █ Owensboro Municipal Utilities



█ Backbone	★ Node	□ County
█ Lateral	● Anchor/CAI	

Map Date: 5.25.2023

KENTUCKYWIRED CRITICAL INFRASTRUCTURE UPGRADES

Critical Infrastructure Upgrades - \$12.9 million –

- A contractual obligation to refresh the core equipment at 10-year intervals
- Network equipment must be upgraded at appropriate intervals to maintain required performance and services
- This is the first phase for the next 3 biennia
- It provides for the replacement of the core optical switching, core routing, and edge routing equipment utilized to provide services in all 120 counties

KENTUCKYWIRED CRITICAL INFRASTRUCTURE PURCHASES

Critical Infrastructure Purchases - \$12.4 million –

- Twenty of the core network nodes are located in the telecommunication shelters
- Structural failures of the original shelters, such as water damage and mold, required the replacement of the original shelters
- New shelters were purchased and financed under an existing contract to allow the project to continue without further delays
- This separate contract allows the Commonwealth to purchase the twenty shelters

KENTUCKYWIRED CRITICAL INFRASTRUCTURE UPGRADES & PURCHASES

QUESTIONS?