



# Community Broadband

Bandwidth needs of communities, industries, and businesses will continue to grow exponentially each year. Community leaders that build their broadband network will effectively close the urban and rural digital divides, and open economic, social, and educational opportunities for their citizens.

**Black & Veatch**  
has deployed

**45,000**  
miles of fiber

**150,000**  
wireless sites

**50,000**  
macro and small cell site  
audits over the last 10 years

## Build the Fourth Utility

Broadband is considered “The Fourth Utility” because like water, gas and electric it has become an essential service for citizens to effectively participate in today’s economy and society. Across America, rural, urban and suburban communities struggle with broadband access, bandwidth needs, provider options and affordability. This is why elected officials across the country are increasingly exploring community-owned broadband deployment strategies.

Communities with project designs that are “shovel-ready” or nearly complete are better able to take advantage of infrastructure funding opportunities like federal grants or public-private partnerships. Community leaders need to assess options and develop a plan for broadband deployment beginning with these important steps:

- 1. Conduct a Preliminary Assessment:** Assess opportunity and options for a broadband project, including community objectives, conceptual design, cost estimates, deployment options, and funding scenarios.
- 2. Address Program Hurdles:** Tackle tough issues and address long lead-time items early, such as asset mapping, service provisioning, billing, operational needs and operations integration.
- 3. Create a Deployment Plan:** Once the preliminary assessment is complete, advance from the conceptual design to the detailed design.

## Expert Network Design and Deployment

Black & Veatch is a leader in the engineering, procurement, and construction of broadband infrastructure. We help communities close the digital divide to innovate their industries, healthcare, education, and economy to enable greater quality of life. We specialize in these services and technologies:

### Services

- Preliminary assessment
- Infrastructure & technology assessment
- Conceptual design & cost estimates
- Partner ecosystem
- Material procurement
- ROW permitting & zoning
- Final engineering & design
- Installation & testing
- Project & construction management
- Construction

### Technology Applications

- Fiber to the x (FTTx) solutions
- Aerial/underground
- Distributed antenna system (DAS)
- Ethernet
- ADSS fiber design & installation
- OPGW fiber design & installation
- Head-end/data center/central office design