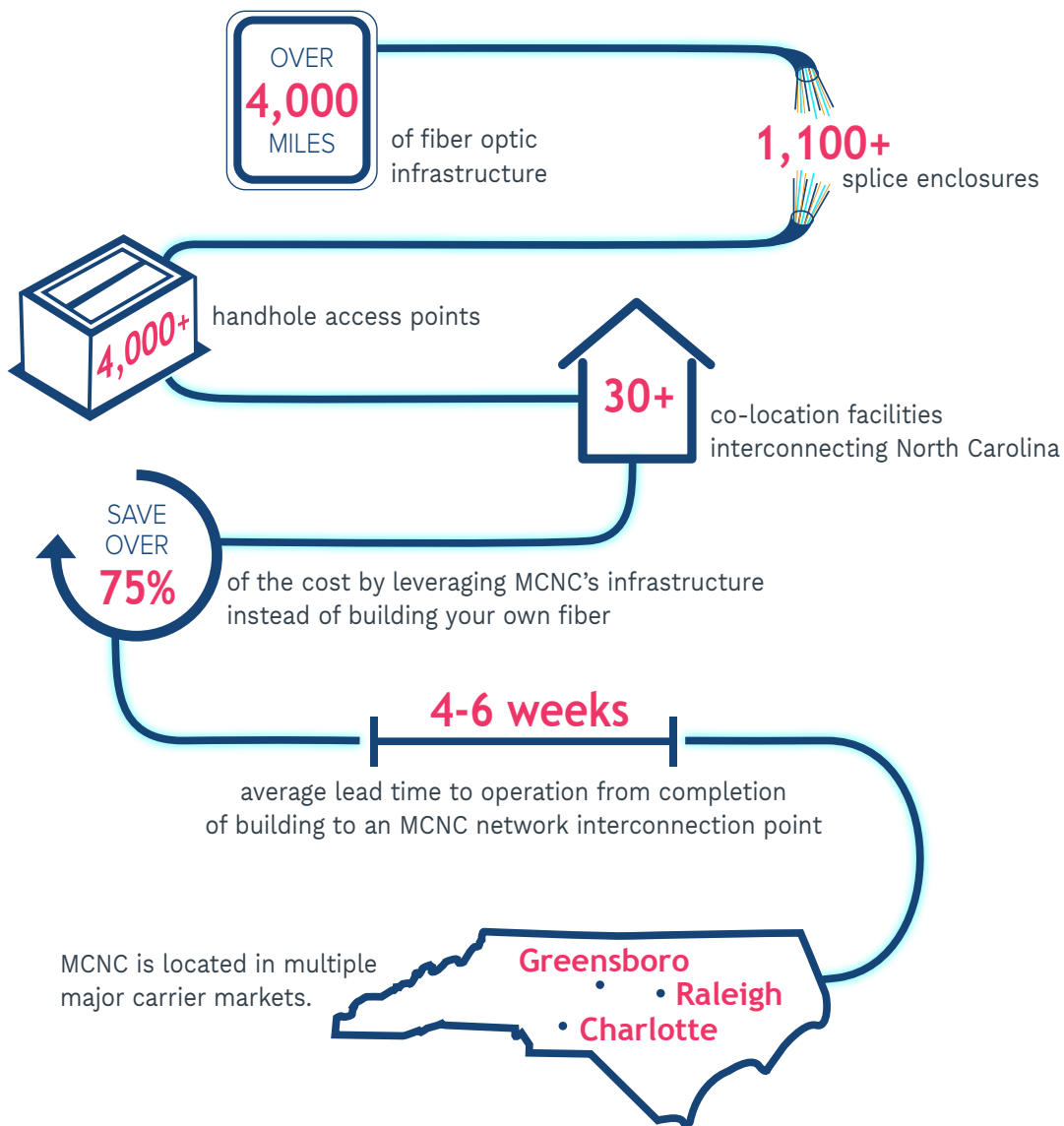# Leveraging MCNC's Open Access Network

MCNC operates and manages a statewide backbone that serves Community Anchor Institutions in North Carolina in an open, non-discriminatory manner. In some areas, MCNC provides lit service and other middle-mile services to private-sector middle or last-mile providers or wholesalers within the MCNC service area at reasonable rates and terms.

MCNC Infrastructure by the Numbers

OVER **4,000** MILES of fiber optic infrastructure

1,100+ splice enclosures

4,000+ handhole access points

30+ co-location facilities interconnecting North Carolina

SAVE OVER **75%** of the cost by leveraging MCNC's infrastructure instead of building your own fiber

4-6 weeks average lead time to operation from completion of building to an MCNC network interconnection point

MCNC is located in multiple major carrier markets.

Greensboro
Raleigh
Charlotte

SERVICE OPTIONS

Layer 1
- ✓ Lease Dark Fiber
- ✓ IRU Dark Fiber
- ✓ Optical Wave

Layer 2
- ✓ Ethernet Service
- ✓ Point-to-Point Transport

Other Services
- ✓ Regional Peering
- ✓ IPv4 Addresses (lease)
- ✓ 24x7x365 NOC
- ✓ Co-location
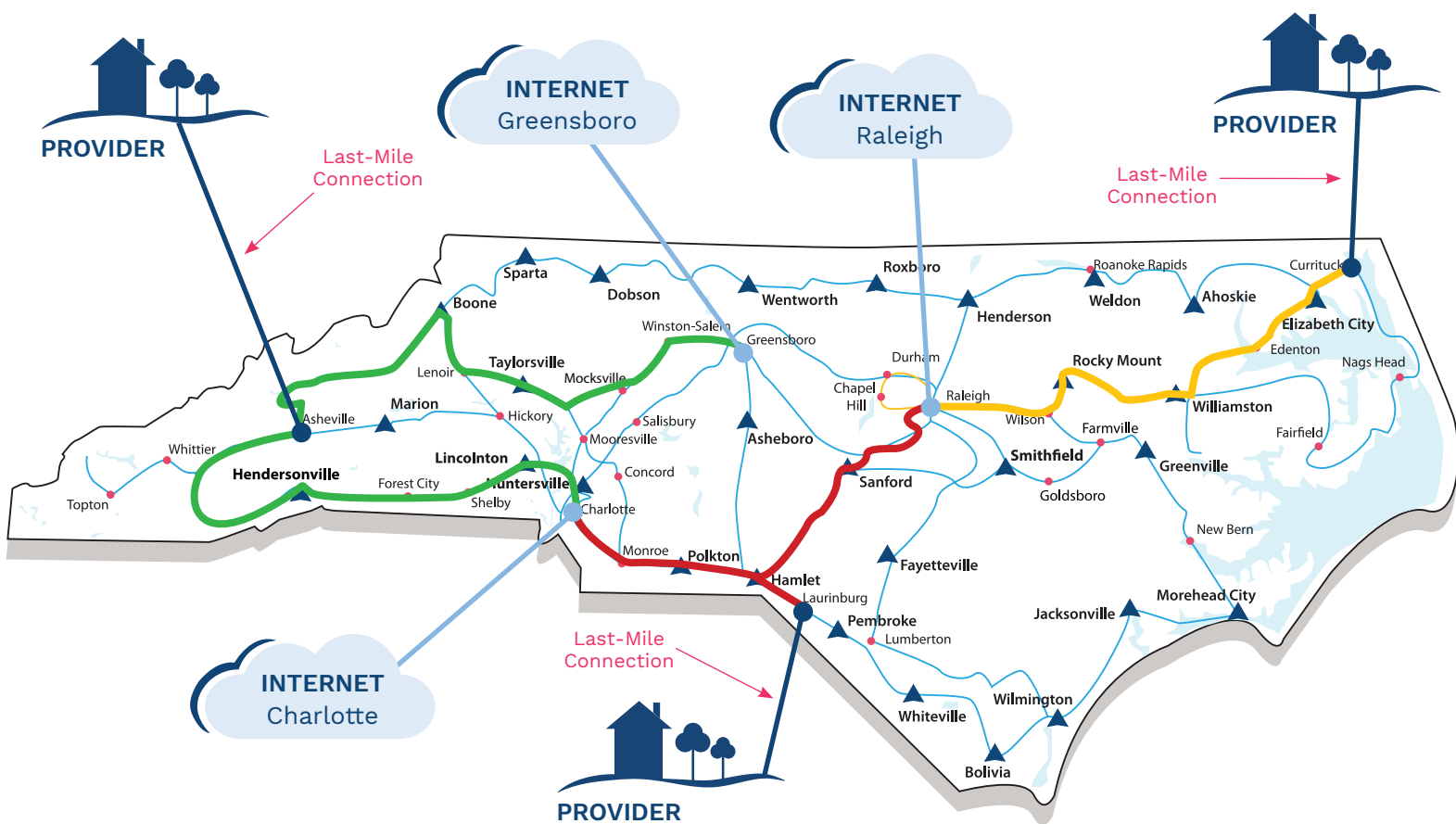- ✓ Data Center
- ✓ Fiber Construction Management

"MCNC seeks to improve broadband access, through initiatives and collaboration with other ISPs to fill in gaps and impact communities. MCNC is well-positioned to leverage its open access middle-mile network and community relationships to improve digital inclusion across North Carolina."

— Tracy Doaks, President & CEO

MCNC®

To connect to MCNC's infrastructure, contact us at (919) 248-1117 or via email at info@mcnc.org. Visit us online at www.mcnc.org/our-solutions/connectivity/fiber to learn more.

Traversing the Network

PROVIDER

INTERNET Greensboro

INTERNET Raleigh

PROVIDER

Last-Mile Connection

Last-Mile Connection

Sparta
Dobson
Wentworth
Roxboro
Roanoke Rapids
Currituck
Boone
Weldon
Ahoskie
Henderson
Elizabeth City
Winston-Salem
Greensboro
Edenton
Taylorsville
Durham
Rocky Mount
Nags Head
Lenoir
Mocksville
Chapel Hill
Raleigh
Williamston
Marion
Hickory
Asheville
Salisbury
Wilson
Farmville
Fairfield
Mooresville
Asheboro
Whittier
Lincolnton
Concord
Smithfield
Greenville
Hendersonville
Huntersville
Sanford
Goldsboro
Forest City
Shelby
Charlotte
New Bern
Topton
Monroe
Polkton
Fayetteville
Morehead City
Hamlet
Laurinburg
Jacksonville
INTERNET Charlotte
Pembroke
Lumberton
Last-Mile Connection
Whiteville
Wilmington
PROVIDER
Bolivia

Proudly Collaborating With

NC DIT
Broadband Infrastructure Office

wireless research center

KEY

— ISP can choose two paths to major carrier hubs
— ISP can choose two paths to major carrier hubs
— ISP opts to only fund one path to a major carrier hub

Once interconnected to the network, traversing it to access major carrier POPs or interconnecting multiple locations can be provisioned.

"Since its award of the BTOP grants to expand broadband in North Carolina, MCNC has been committed to the principles and value of open interconnect networks. MCNC seeks to work with providers to expand commercial broadband to rural areas of North Carolina to serve residents and businesses alike so that all have equal access to premier broadband. We welcome opportunities to speak with any provider committed to this same value and we can be creative in customizing solutions."

– Tommy Jacobson, Vice President & COO

MCNC is a nonprofit, client-focused organization. Founded in 1980, MCNC owns and operates NCREN, one of America's longest-running regional research and education networks. With 40 years of innovation, MCNC continues to provide high-performance services for education, research, libraries, health care, public safety, and other community anchor institutions throughout North Carolina.

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