

### MAPPING AND BROADBAND

AUGUST 17, 2022

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BROADBAND INFRASTRUCTURE OFFICE

### **DIVISION OF BROADBAND AND DIGITAL EQUITY**





#### MISSION - DIVISION OF BROADBAND & DIGITAL EQUITY

- Broadband Infrastructure Office
- Office of Digital Equity and Literacy

Expanding broadband access across the state

Building a sustainable team to deliver digital equity to NC

Leveraging data to identify and understand community needs

Enabling more North Carolinians to afford highspeed internet

Increasing digital literacy among all North Carolinians



## **NEARLY \$1 BILLION INVESTMENT PLAN (ARPA)**



\$971M

Ensure availability of internet service at speeds of at least 100/20 Mbps for more than 98% of North Carolina households.

\$380M

• GREAT Grant (\$350M American Rescue Plan Act; \$30 State CIF)

\$400M

Completing Access to Broadband (CAB)

\$90M

• Stop Gap Solutions

\$100M

• Broadband Make Ready Accelerator (Pole Replacement Fund)

\$1M

Broadband Mapping



\$50M

Improve awareness and enable North Carolinians to realize the benefits of high-speed internet through digital literacy and upskilling aimed at accessing the digital economy.



\$15M

Supplement existing state administrative capacity to support high-speed internet efforts.



# **INFRASTRUCTURE INVESTMENT & JOBS ACT (IIJA)**

Program	Funding
<ul> <li>FCC Affordable Connectivity Program</li> <li>Transitioned from Emergency Broadband Benefit Program on Dec. 31</li> <li>Reduces subsidy from \$50 to \$30 per month for qualifying households</li> <li>Up to \$75 subsidy for households on Tribal lands</li> <li>One-time discount of up to \$100 for a laptop, tablet or desktop computer (with a co-payment of more than \$10 but less than \$50)</li> </ul>	\$14.2 billion
<ul> <li>**Broadband Equity, Access, and Deployment (BEAD) Program</li> <li>High-cost areas (\$4.245B), Formula grants (\$37.356B)</li> <li>Initial minimum allocation of \$100M per state or territory</li> <li>Must include affordability component; prohibits exclusion of municipal networks</li> </ul>	\$42.45 billion
Enabling Middle Mile Broadband Infrastructure Program	\$1 billion
Tribal Broadband Connectivity Program	\$2 billion
**State Digital Equity Planning Grant Program	\$60 million
State Digital Equity Capacity Grant Program	\$1.44 billion
Digital Equity Competitive Grant Program	\$1.25 billion



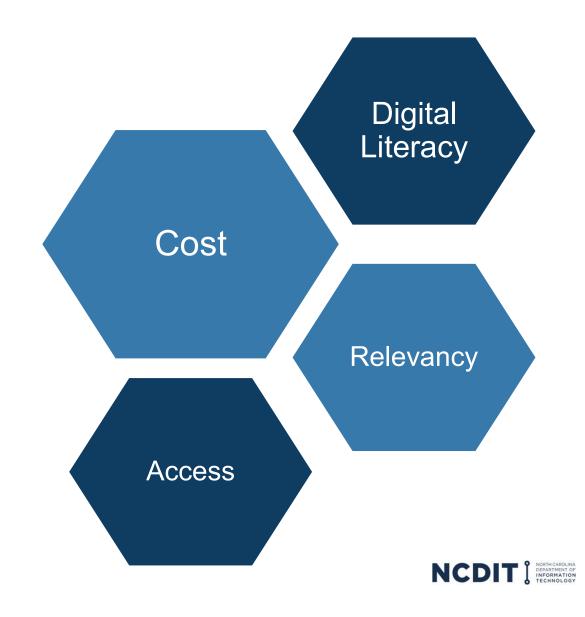
Common Barriers to Broadband Deployment

Capital Expenditures (CAPX)

Population Density



Common Barriers to Broadband Adoption



### **GREAT GRANT PROGRAM (\$350M)**

https://www.ncbroadband.gov/grants/great-grant-federal/great-grant-2021-2022

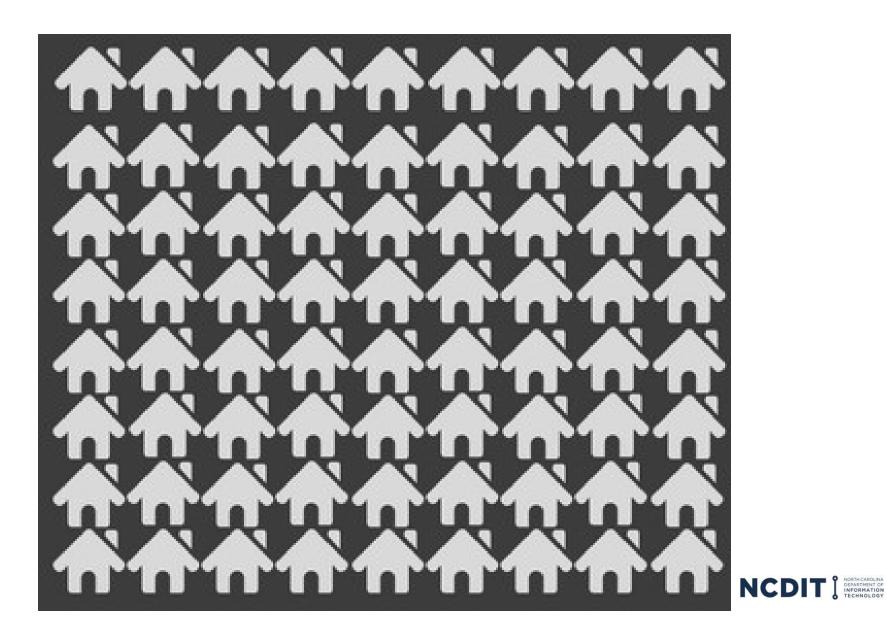
- Applicants/Recipients are broadband service providers
- Funds to build infrastructure to last-mile unserved locations (<25/3 Mbps)</li>
- Specific definition of unserved area in the Guidance Document
- Maximum grant award is \$4 million
- No combination of awards shall exceed \$8 million in a single county per fiscal year

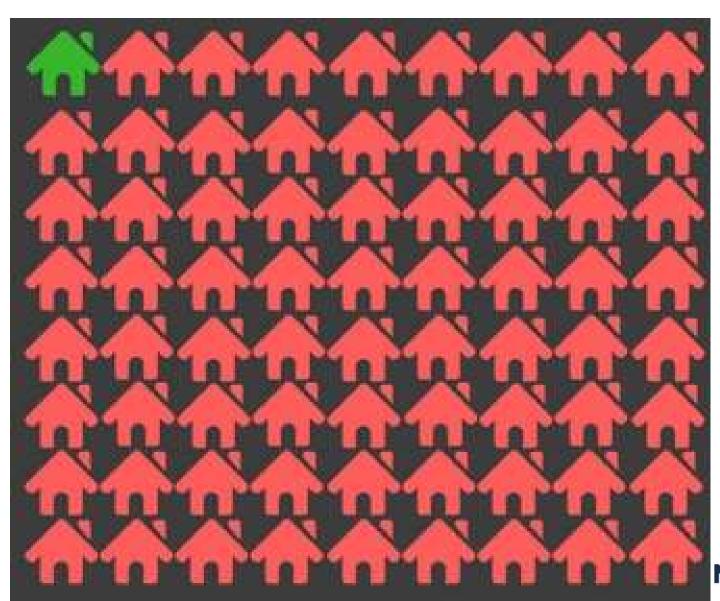


#### FINDING UNSERVED LOCATIONS

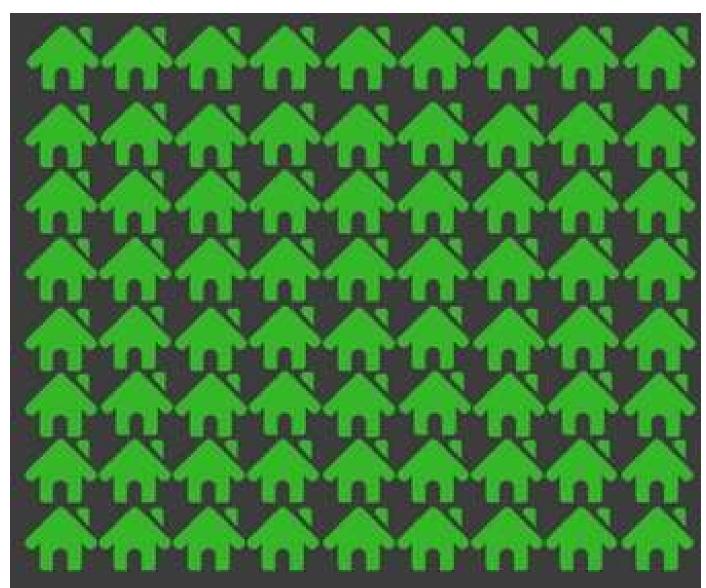
- Baseline Data from the Federal Communications Commission (FCC)
- Additional Data Sources indicating Unserved (NC Broadband Survey)
- Identify areas receiving other federal/state broadband investments



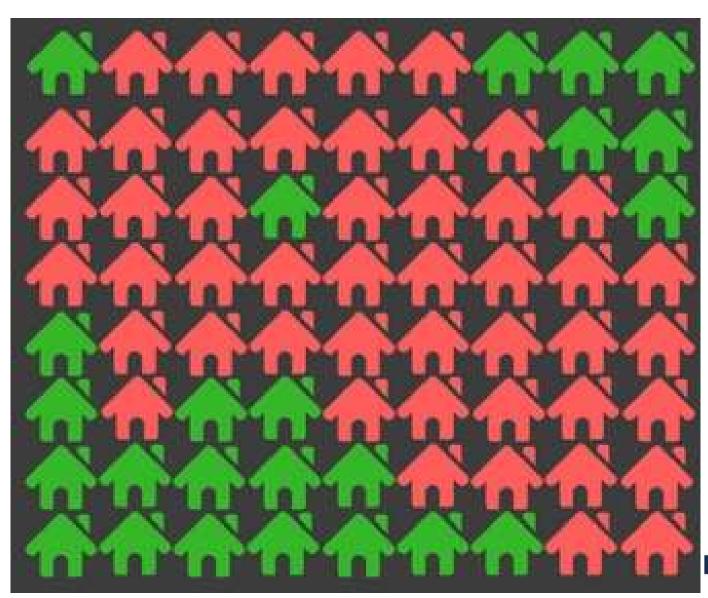








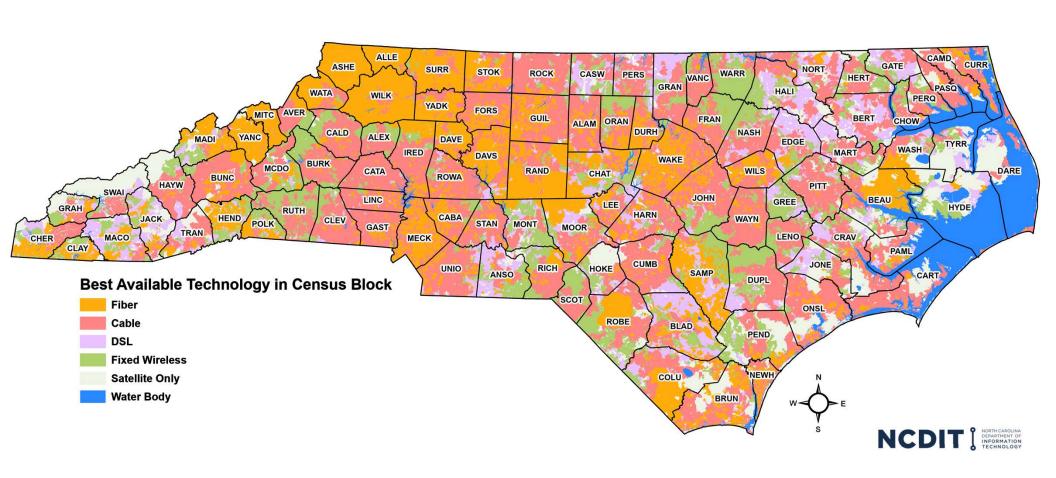






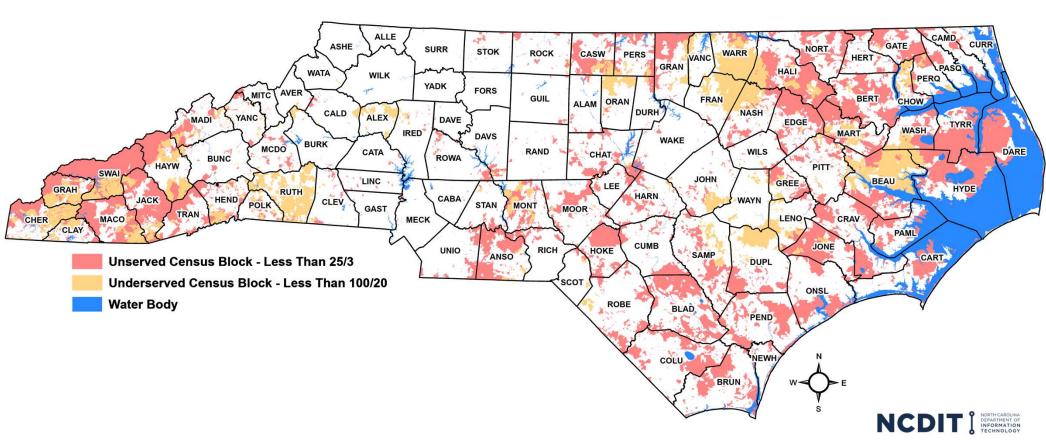
# **NC Broadband Technology Inventory**

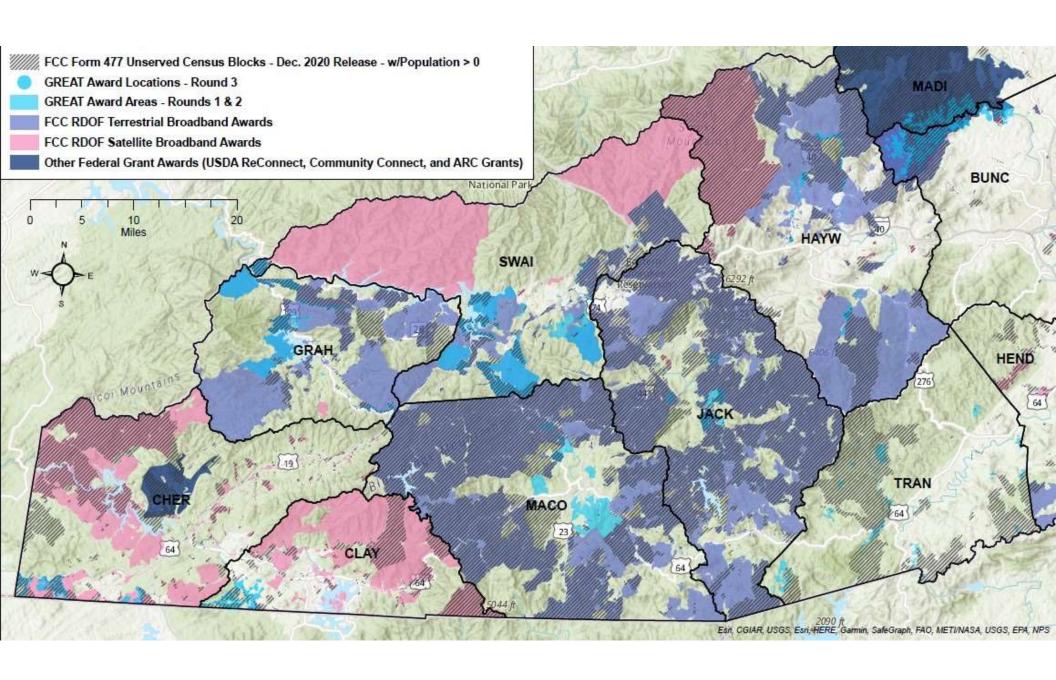
Data derived from U.S. Federal Communications Commission Form 477
Data Release Dec. 2020.



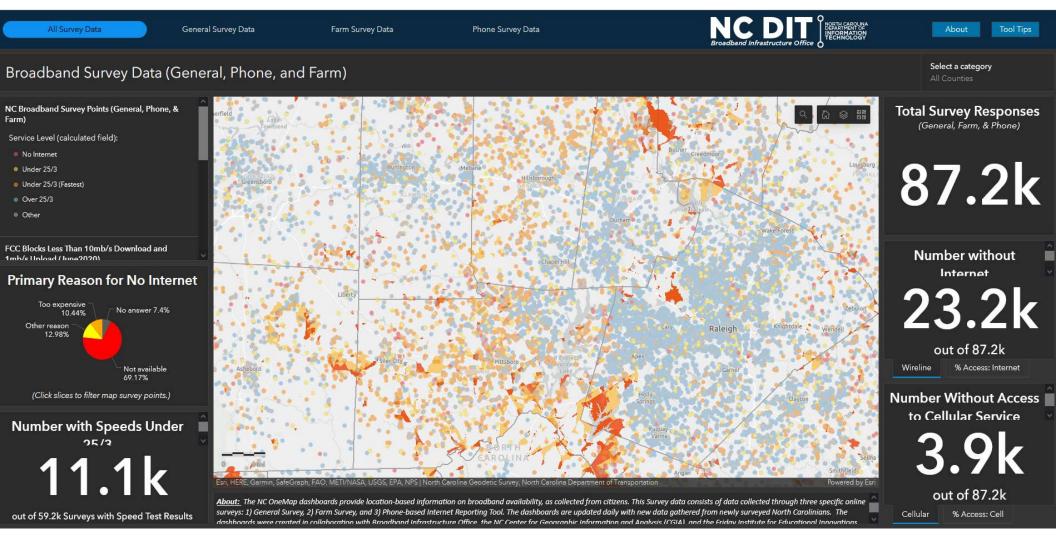
# **NC Broadband Service Inventory**

Unserved Census Blocks Reporting DSL Only, Satellite, or No Service And Underserved Census Blocks reporting Less Than 100 mb/s Download and 20 mb/s Upload Data derived from U.S. Federal Communications Commission Form 477 Data Release Dec. 2020.

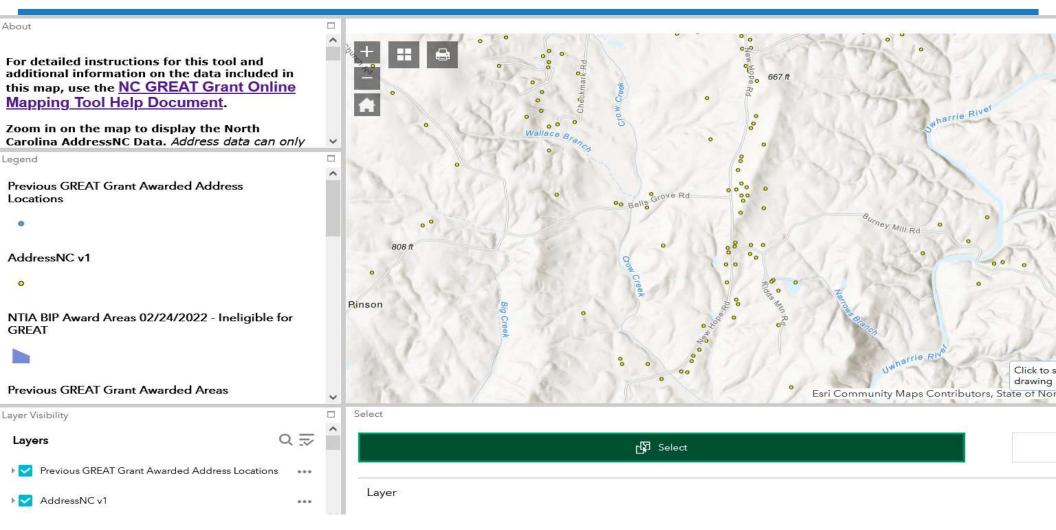




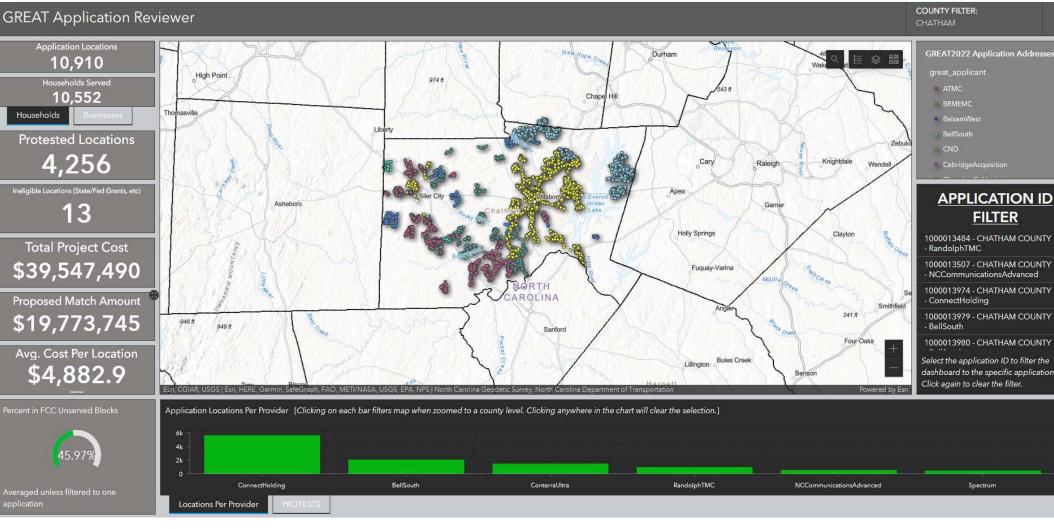
### **NC BROADBAND SURVEY**



### **GREAT GRANT ONLINE MAPPING TOOL**



### **GREAT APPLICATION REVIEWER (INTERNAL)**



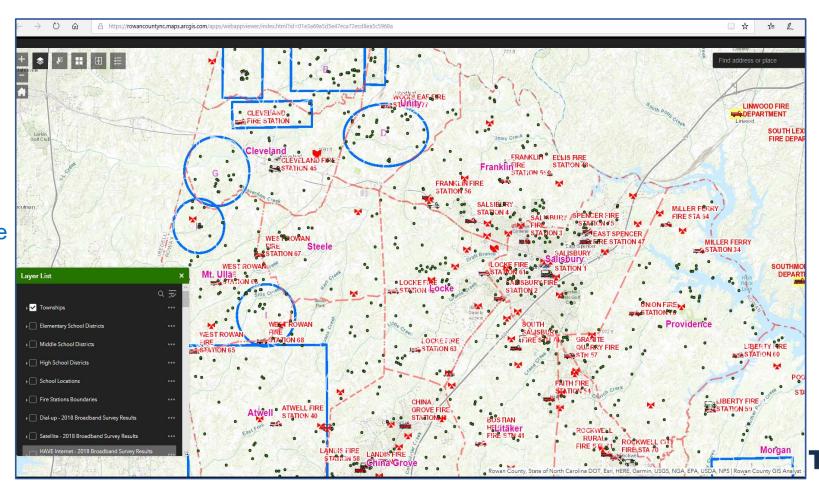
### CAB PROGRAM (\$400M)

- Partnership between county and NCDIT
- Mutually identify eligible, unserved and underserved areas
- Competitive bidding process, evaluation criteria under development
- No county may receive more than \$4 million in aggregate funding from the
   CAB Program in a fiscal year
- Award must use county and state funds
  - Counties will transfer funds to the state
- State provides program and fiscal oversight of project



# **County Planning**

Example:
Planning
effort led by
Rowan
County
utilizing the
Broadband
Infrastructure
Office's
Community
Playbook





### **KEY NEXT STEPS**

#### Mapping, High-Level:

- New FCC Data Processes in Place Fall 2022
- Integration of FCC Data with state data processes
- Continued use of AddressNC data and utilization of Building Footprints

#### **Programmatic Next Steps:**

- Award of Remaining GREAT Grants
- Development of Mapping Coordination Processes for CAB
- Development of Mapping Processes for Stop Gap



### **BROADBAND MAPS - NC ONE MAP**

NC OneMap

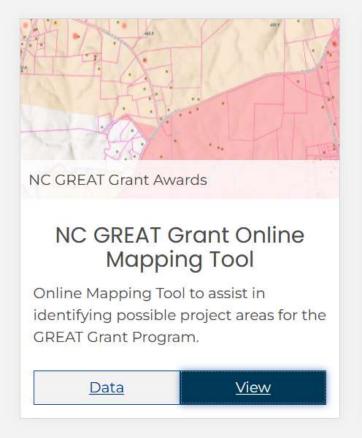
DATA PROJECTS▼

**ANNOUNCEMENTS** 

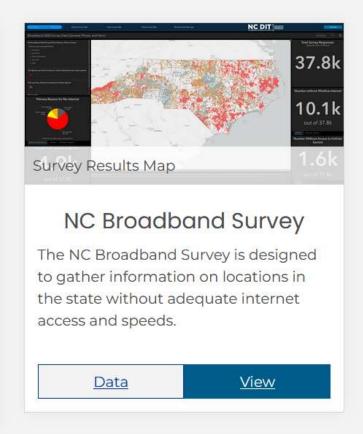
**TERMS** 

**CONTACT US** 

**ABOUT** 







### **QUESTIONS?**

#### **GREAT Grant Questions**

- <u>GREATGrant@nc.gov</u>
- <a href="https://www.ncbroadband.gov/grants/great-grant-federal/great-grant-2021-2022">https://www.ncbroadband.gov/grants/great-grant-federal/great-grant-2021-2022</a>

#### **CAB Program Questions**

- <u>CABprogram@nc.gov</u>
- https://www.ncbroadband.gov/grants/cab-grant

### **Mapping Questions**

• <u>broadbandmapping@nc.gov</u>

