



## SC Broadband Advisory Council

Enabling South Carolinians to Thrive in the Global Digital Economy

South Carolina Office of Regulatory Staff | July 12, 2022

Agenda
--------

Welcome / Roll Call Review & Approve Minutes

**Legislative Update** 

**SC Broadband Office Update** 

**County/Municipal ARPA Projects** 

**Other Business** 

Next Meeting – Tuesday, Oct. 11, 2022 Adjourn Jim Stritzinger, Co-Chair

Nanette Edwards, ORS

Jim Stritzinger, ORS

Anna Berger, Co-Chair Jason Ward, Administrator Dorchester County

All

All



## **Legislative Update**

### **AMERICAN RESCUE PLAN ACT**

H. 4408 \$400 Million for SC Broadband Infrastructure

Enacted May 13, 2022



The funds in the ARPA Broadband Account shall be used to expand broadband infrastructure to households, businesses, and communities in the State that are **unserved** or **underserved** by broadband services.

# SC Digital Drive Refresh www.scdigitaldrive.org

#### **South Carolina**

#### Best Available Technology

March 31, 2022

#### Best Available Technology (type | capability)

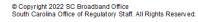
Fiber   Speeds >= 100 Mbps/100 Mbps (symmetric)
Cable (DOCSIS 3.1+)   Speeds >= 100 Mbps/100 Mbps (symmetric)
Cable (DOCSIS 3.0)   Speeds >= 100 Mbps/20 Mbps
Cable (DOCSIS < 2.0)   Speeds >= 25 Mbps/3 Mbps
VDSL (Fiber-To-The-Curb)   Speeds >= 10 Mbps/1 Mbps
ADSL2, ADSL2+   Speeds >= 6 Mbps/1 Mbps
Fixed Wireless   Speeds >= 10 Mbps/1 Mbps
ADSL   Speeds >= 3 Mbps/768 kbps
No Internet Service Available
Zero Households

Data Sources: Based on SC Broadband Office analysis of FCC Form 477, Dec. 31, 2021 reported directly to our office by Internet Service Providers. Satellite and mobile broadband services are excluded. Demographic data based on US Census 2020 information.

The SC Broadband Office is neither responsible nor liable for damages or injuries caused by failure of performance, error, omission, inaccuracy, inaccessibility, incompleteness or any other errors in information or formatting on this map.

Speedtest Intelligence® data from Jan. 1, 2019 through M ar. 31, 2022 combined for analysis in the region. Ookla® trademarks used under license and reprinted with permission.

Additional broadband information may be found at www.scdigitaldrive.org. Submit comments or questions to maps@ors.sc.gov







# "Begin With the End in Mind" Steven R. Covey, 7 Habits of Highly Effective People

#### Speed Tiers (download / upload)

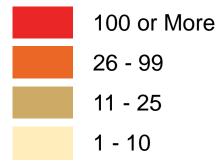
100 Mbps / 1	00 Mbps	(symmetric)
--------------	---------	-------------

100 Mbps / 20 Mbps



**Zero Households** 

#### **Unserved Housing Units**



### DON'T INVEST HERE

**Green:** Already served. Meets or exceeds FCC's 25/3 Mbps White: Nobody lives there.

### **INVEST HERE!**

Find the "freckles" and prioritize them. Freckles are places with a lot of homes with poor Internet.

#### **South Carolina**

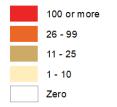
#### **Areas of Need**

March 31, 2022

#### Speed Tiers (download / upload)



#### **Unserved Housing Units**

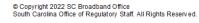


Data Sources: Based on SC Broadband Office analysis of FCC Form 477, Dec. 31, 2021 reported directly to our office by Internet Service Providers. Satellite and mobile broadband services are excluded. Demographic data based on US Census 2020 information.

The SC Broadband Office is neither responsible nor liable for damages or injuries caused by failure of performance, error, omission, inaccuracy, inaccessibility, incompleteness or any other errors in information or formatting on this map.

Speedtest Intelligence® data from Jan. 1, 2019 through M ar. 31, 2022 combined for analysis in the region. Ookla® trademarks used under license and reprinted with permission.

Additional broadband information may be found at www.scdigitaldrive.org. Submit comments or questions to maps@ors.sc.gov









#### Planning

January 1, 2023

#### Speed Tiers (download / upload)



#### **Unserved Housing Units**

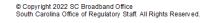


Data Sources: Based on SC Broadband Office analysis of FCC Form 477, Dec. 31, 2021 reported directly to our office by Internet Service Providers. Satellite and mobile broadband services are excluded. Demographic data based on US Census 2020 information.

The SC Broadband Office is neither responsible nor liable for damages or injuries caused by failure of performance, error, omission, inaccuracy, inaccessibility, incompleteness or any other errors in information or formatting on this map.

Speedtest Intelligence® data from Jan. 1, 2019 through M ar. 31, 2022 combined for analysis in the region. Ookla® trademarks used under license and reprinted with permission.

Additional broadband information may be found at www.scdigitaldrive.org. Submit comments or questions to maps@ors.sc.gov







#### **South Carolina**

Statewide

#### **Statistics**

March 31, 2022



#### Population

Population estimates are calculated by multiplying Census 2020 housing unit data times an approximate residents per housing unit.

#### Public K-12

K-12 student data reflects the subset of public school students which have been geocoded as of March 31, 2022. Student data was provided by the SC Department of Education.

#### Housing Units

A housing unit is a house, an apartment, a mobile home, a group of rooms, or a single room that is occupied (or if vacant, is intended for occupancy) as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from the outside of the building or through a common hall. US Census 2020 housing unit data is utilized in all calculations.

#### Qualified HU

Qualified Housing Units (HU) are located within Difficult Development Areas (Qualified Census Tracts) as determined by US Housing and Urban Development utilizing Census 2010 format. Census 2020 translation was done by the SC Broadband Office.

#### ACP

The Affordable Connectivity Program is an FCC benefit program that helps ensure that households can afford the broadband they need for work, school, healthcare and more.

Data Sources: Based on SC Broadband Office analysis of FCC Form 477, Dec. 31, 2021 reported directly to our office by Internet Service Providers. Satellite and mobile broadband services are excluded. Demographic data based on US Census 2020 information. ACP data reported by the Universal Service Administrative Company through March 31, 2022.

The SC Broadband Office is neither responsible nor liable for damages or injuries caused by failure of performance, error, ornission, inaccuracy, inaccuracy, inaccursibility, incompleteness or any other errors in information or formatting on this map.

South Carolina Office of Regulatory Staff. All Rights Reserved.

Additional broadband information may be found at www.scdigitaldrive.org. Submit comments or questions to maps@ors.sc.gov



US Census	Population		Housing Units	
2010	4,625,364		2,137,683	
2020	5,118,425	10.7%	2,344,963	<b>9.7%</b>
March 31, 2022	5,119,045	10.7%	2,346,388	<b>9.8%</b>

CURRENT	Current Below 25↓ Mbps Download / 3个 Mbps Upload							
	Population		Public K-12		Housing Units		Qualified HU	
March 31, 2022	388,629	7.6%	50,167	7.1%	181,715	7.7%	23,813	13.1%

ACCESS								
Fiber		Cable		Copper				
892,935	38.1%	2,022,211	86.2%	1,911,509	81.5%			

ADOPTION								
Fiber		Cable		Copper				
336,939	14.4%	1,203,234	51.3%	300,184	12.8%			

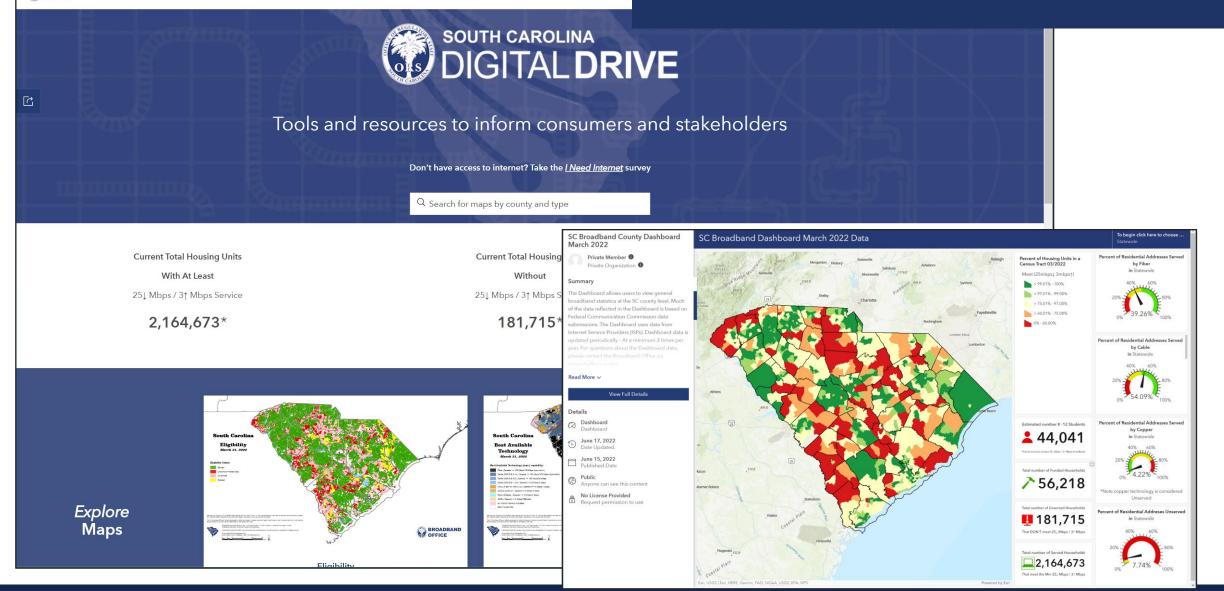
ACP Enrollment								
Subscribers		Service		Device		Devices		
205,051	8.7%	\$4,603,516		\$240,383		2,408		

FUNDED PROJECTS	Projected Investment Impact							
	Population		Public K-12		Housing Units		Qualified HU	
Federal Funding	20,435		2,632		9,766		946	
State Funding	31,006		3,494		14,846		2,351	
Total	51,441		6,126		24,612		3,297	

FUTURE	Remaining Below 25↓ Mbps Download / 3个 Mbps Upload							
	Population		Public K-12		Housing Units		Qualified HU	
January 1, 2023	337,188	6.6%	44,041		157,103	6.7%	20,516	

Ξ

### www.SCDigitalDrive.org



#### **ORS.SC.GOV**

## **SCBBO Staffing Enhancements**

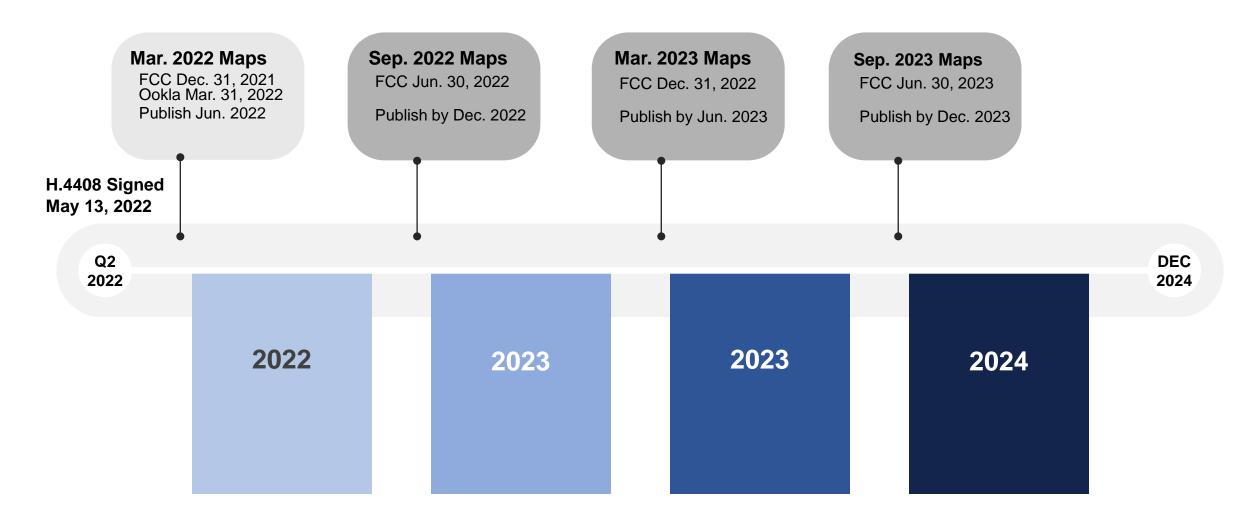
#### 1) JUNE 30, 2022 – 3 Dedicated FTEs

- Jim Stritzinger Director
- Mike Herzberger Deputy Director
- James Tanis Sr. Data Scientist
- Finance, Legal, IT, Admin Shared Staff

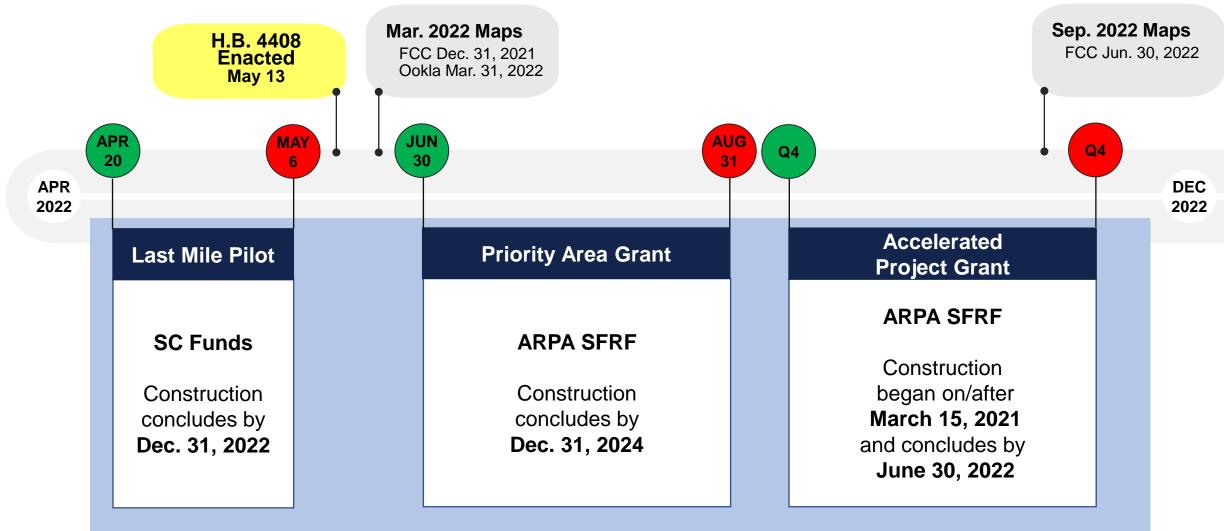
#### 2) JULY 2022 – 3 New FTEs

- Program Coordinator Emily Keys
- GIS Specialist Michael Borowski
- GIS Specialist Angelica Petsch

## **SC BROADAND INVESTMENT ROADMAP**



### **2022 SC BROADBAND GRANT PROGRAMS**



\* All dates are pending approval and are subject to change without notice.

## Last Mile Grant Pilot Program

- 1) Direct Support for "I Need Internet" Survey Respondents
- 2) Targeting "Donut Holes" in Served Census Blocks
- 3) Applications Opened April 20 / Closed May 6
- 4) Awarded ~\$1.3M, to connect 569 Residential Homes
- 5) Six Internet Service Providers
  - CarolinaConnect
  - Charter
  - Comporium
  - Horry Telephone Cooperative
  - TruVista
  - WC Fiber

#### 6) Construction Complete By Dec. 31, 2022

## What are Accelerated Projects? (Preliminary)

- 1) Broadband construction to unserved areas that was initiated on/after <u>March</u> <u>15, 2021</u> and was operational by <u>June 30, 2022</u>.
- 2) Unserved Areas are defined by Sep 2021 SC Eligibility Map ✓ This map represents FCC Form 477 June 30, 2021 status and excludes DSL
- 3) ORS will award up to <u>\$25,000,000</u> of the allocated ARPA funds
- 4) ORS will likely accept applications in Q4 2022
- 5) Applications must document operational status
- 6) Applications will require complete financial submission

Source: H.4408, Section 7B: The grant program may include an opportunity to reimburse a portion of construction costs, incurred on or after March 15, 2021, related to the expansion of broadband during the pandemic.

# What are Priority Areas?

### **Unserved 2020 Census Blocks with:**

- 1) More than 20 public K-12 student households; or,
  - ✓ Broadband maps include data from 785,000 public school students that was provided by SC Department of Education
- 2) Difficult Development Areas as identified by US Housing and Urban Development (HUD); or,
  - Defined geographies that are updated annually by HUD and are the basis for deploying Community Development Block Grants (CDBG) in the United States.

#### 3) No Internet Service Provider

✓ FCC Form 477 data shows null value for ISP as of Dec. 31, 2021.

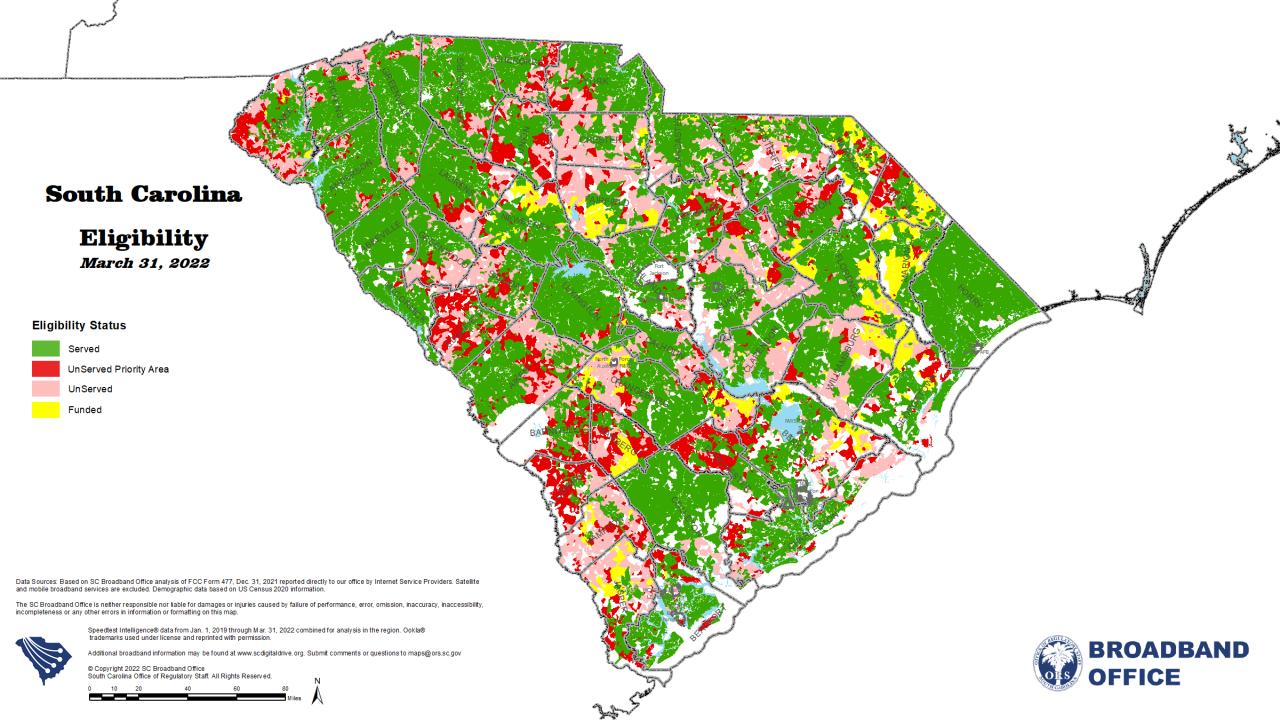
Source: H.4408, Section 9: Priority must be given to unserved areas with no current Internet Service Provider, Difficult Development Areas as identified by U.S. Housing and Urban Development, and census blocks that have a high concentration of unserved public K-12 student households as documented by the South Carolina Department of Education.

# How much will ORS invest in Priority Areas?

Depending on the number of qualified applications, ORS may award <u>approximately \$180,000,000</u> of the allocated ARPA funds.

## What are the match requirements?

# Applicant May Define Their Own Match For Priority Areas!



# **Map Challenges**

### For documenting map errors in <u>unserved census blocks</u> due to:

- Map errors or work completed between 12/31/21 and 6/30/22.
- Challenges must be submitted by June 30, 2022, accepted challenges will be posted by July 15, 2022
- FCC Form 477 June 30, 2022 (due Sep. 1, 2022), submissions will be used to audit map challenges.

# **Funded Project Register**

### For documenting future projects that are <u>fully funded</u> due to:

- Private Funding
- FCC Rural Digital Opportunity Fund (RDOF)
- USDA ReConnect
- ARPA Local Fiscal Recovery Funds (LFRF, County/Municipal)
- Only for construction that will finish between July 1, 2022, and June 30, 2023
- FPR submissions due by August 1, 2022

These tools help to avoid duplication of facilities!

# **Eligible Applicants**

Must be Internet Service Providers (ISPs) that:

- Offer **residential service** <u>and</u> have previously **filed FCC Form 477**
- Provide an affordable high-speed Internet plan (w/o income requirements)
- Participate in the FCC's Affordable Connectivity Plan (ACP)

# **Eligible Projects**

Must:

- Contain at least one high priority census block of K-12 students
- Serve 80% of housing units in project area census blocks upon completion
- Utilize technology that meets or exceeds 100/100 or provide documentation of scalability from 100/20.
- Must not overbuild existing 25/3 networks.

# **Scoring Criteria**

- 1. High Priority Area (30%-35%!)
- 2. Total Number of Housing Units Served (20%)
- 3. Availability Broadband Infrastructure (15%)
- 4. Geography (10%)
- 5. Average Cost Per Structure (10%)
- 6. Collaboration/Adoption/Community Assistance (10%)
- 7. Broadband Service Provider Experience (5%)

All eligible applications will be reviewed and scored; however, ORS reserves the right to award grants that are in the public interest and accelerate internet deployment.

# **Priority Grant Program Dates**

Event	Date
Eligibility Map Published on the ORS Website Challenge period to eligibility map opens	6/20/2022
Application Period Opens Challenge period to eligibility map closes	6/30/2022
Map Challenge accepted and posted to ORS Website	7/15/2022
Application Period Closes	8/31/2022
Submitted Applications Posted on the ORS Website / Comment Period Opens	9/6/2022
Comment Period Closes	10/3/2022
Application Review / Selection	11/1/2022
Funding Agreements Sent to the Companies	11/14/2022
Funding Agreements Returned to the ORS	12/22/2022
Notices to Proceed Issued	12/30/2022
Quarterly Progress Report Due	4/17/2023 - 10/14/2024
Project Completion	12/31/2024
Final Reporting Due	1/30/2025

\* All dates are pending approval and are subject to change without notice.

## **Locating Documents**



## **SC ARPA Capital Projects Fund**

### **AMERICAN RESCUE PLAN ACT**

H. 4408 \$400 Million for SC Broadband Infrastructure

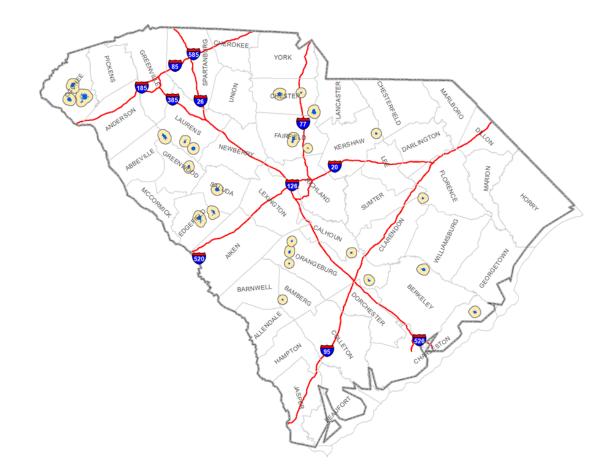
Enacted May 13, 2022



The funds in the ARPA Broadband Account shall be used to expand broadband infrastructure to households, businesses, and communities in the State that are **unserved** or **underserved** by broadband services.

#### THE NEXT, NEXT GREATEST THING

Main Street, South Carolina



### **1. Main Street Communities**

- **ESA** = Main St + 2mi buffer
- 2. Eligible if less than 50% have 100/20
- 3. Requires 100/100 Symmetric
- 4. "Dig Once" Opportunities
  - Water & Sewer (RIA)
  - Roads (SCDOT)

## **SC Rural Broadband Grant Program**



#### Planning

January 1, 2023

#### Speed Tiers (download / upload)



#### **Unserved Housing Units**

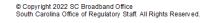


Data Sources: Based on SC Broadband Office analysis of FCC Form 477, Dec. 31, 2021 reported directly to our office by Internet Service Providers. Satellite and mobile broadband services are excluded. Demographic data based on US Census 2020 information.

The SC Broadband Office is neither responsible nor liable for damages or injuries caused by failure of performance, error, omission, inaccuracy, inaccessibility, incompleteness or any other errors in information or formatting on this map.

Speedtest Intelligence® data from Jan. 1, 2019 through M ar. 31, 2022 combined for analysis in the region. Ookla® trademarks used under license and reprinted with permission.

Additional broadband information may be found at www.scdigitaldrive.org. Submit comments or questions to maps@ors.sc.gov







## Rural Broadband Grant Program (As of 3/31/22)

- 1) 17 Internet Service Providers / 18 Counties (11 Eligible / 7 Contiguous)
- 2) \$30M State Money / Collaboration w/ SC Department of Commerce
- 3) 776.1 miles of Fiber Construction
- 4) Access for 5,023 Housing Units (24% of funded HU)
- 5) Of the 34 projects
  - Complete 4
  - > 70% and < 99% Complete 12</li>
  - > 35% and < 69% Complete 8</li>
  - > 10% and < 34% Complete 7</li>
  - 3 Relinquished
- 6) \$26,616,704 Project Expenses Incurred
- 7) Construction Complete By Oct. 31, 2022

## **County/Municipal ARPA Projects**

# Mr. Jason Ward, Administrator Dorchester County, SC



### **Other Business**

### INFRASTRUCTURE ACT\* CREATES ~\$65B IN BROADBAND FUNDING

NTIA	FCC to administer ~\$14B			
BEAD	DIGITAL EQUITY	TRIBAL	MIDDLE MILE	<b>\$14.2B</b> For Affordable Connectivity Program, which will replace the EBB program
\$42.45B	\$2.75B	\$2.00B	\$1.00B	USDA to administer \$2B
Title I - Broadband Equity, Access & Deployment Program	Title III – Digital Equity Act Three programs, established for planning	Title II - Tribal Connectivity Technical Amendments	Title IV - Enabling Middle Mile Broadband Infrastructure	<b>\$2.0B</b> Via the Rural Utilities Service
Formula-based grant program for U.S. states and territories. BEAD aims to close the access gap for unserved &	& implementation of programs that promote digital equity, support digital inclusion activities, and build capacity	Furthers current Tribal Broadband Connectivity Program by investing an additional \$2B to fund	Provides funding to extend middle mile capacity to reduce cost of serving unserved and	Private Activity Bonds \$600M \$600M Authorizes State/local gov'ts
underserved areas of the country.	related to the adoption of broadband.	broadband adoption and infrastructure projects.	underserved areas and enhance network resilience.	to use private activity bonds for rural broadband

\* Infrastructure Investment and Jobs Act, Division F, Pub. L. 117-58 (Nov. 15, 2021) Note: funding amounts inclusive of all administrative set-asides.

# **Starlink Pilot Program**





- 1) Collaboration w SCDOE
- 2) 20 Student/Staff Homes
- 3) 7 School Districts
  - Allendale
  - Bamberg
  - Barnwell
  - Clarendon
  - Greenville
  - Hampton
  - Williamsburg
- 4) Statistics
  - 120.5/10.0 Mbps Avg Down/Up
  - 53.5ms Avg Ping
  - 21.1ms Avg Jitter
- 5) All Live on 6/29/22



# Thank you!

