New Kent County

New Kent County Universal Broadband Expansion Project

Application ID: 95708252022102318

Application Status: Pending

Program Name: Virginia Telecommunication Initiative 2023 - Application

Organization Name: New Kent County

Organization Address: 12007 Courthouse Circle

New Kent, VA 23124-2242

Profile Manager Name: Rodney Hathaway

Profile Manager Phone: (804) 966-9683

Profile Manager Email: rahathaway@newkent-va.us

Project Name: New Kent County Universal Broadband Expansion Project

Project Contact Name: Rodney Hathaway

Project Contact Phone: (804) 966-9683

Project Contact Email: rahathaway@newkent-va.us

Project Location: PO Box 150

New Kent, VA 23124-2242

Project Service Area: New Kent County

Total Requested Amount: \$5,519,461.00

Required Annual Audit Status: No Current Audits Found

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total	
Telecommunications	\$5,519,461.00	\$6,100,457.00	\$11,619,918.00	
Construction	\$5,357,785.00	\$5,921,763.00	\$11,279,548.00	
Other: Design and Permitting	\$87,095.00	\$96,262.00	\$183,357.00	
Other: Equipment	\$74,581.00	\$82,432.00	\$157,013.00	
Total:	\$5,519,461.00	\$6,100,457.00	\$11,619,918.00	

Budget Narrative:

Questions and Responses:

1. Project Description and Need

Describe why and how the project area(s) was selected. Describe the proposed geographic area including specific boundaries of the project area (e.g. street names, local and regional boundaries, etc.). Attach a copy of the map of your project area(s). Label map: Attachment 1 – Project Area Map.

Answer:

New Kent County is comprised of approximately 223 square miles and has approximately 24,000 residents. While New Kent County is one of the fastest growing counties in Virginia, many residents still lack access to reliable broadband service. As a result, New Kent County began work to develop its Broadband Strategic Plan in 2019. Outlined in the Broadband Strategic Plan, the goal of the County is to extend affordable broadband internet service access to every resident and business in New Kent County who lack access to broadband. A significant component of that plan involved defining and identifying the broadband need in the County, which was accomplished through citizen surveys, research of served and unserved areas, and conversations with existing providers. Through this process, we were able to identify the areas of most need and develop a plan to expand broadband service to the entire County. The areas selected for this grant application are very rural areas and are a critical strategic step in reaching our goal of providing universal broadband service in New Kent County.

In November 2021, the Board of Supervisors issued a request for proposals to expand, deploy, maintain and operate a broadband network to provide internet to unserved and underserved areas throughout the County. Reaching universal broadband coverage is a significant endeavor and why partnership is so critical. After a competitive bid process, the County announced its notice of intent to award Cox Communications Hampton Roads a contract for a broadband expansion project in July 2022. Their proposal offered the County the most dependability and experience.

For the last several years, New Kent County had been partnering with Cox Communications to identify

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solutions to extend broadband service to those remaining unserved areas as well as to new residential developments. Since 2018, Cox has invested more than \$2.3M in their network to connect approximately 1,200 new homes in 16 residential developments in New Kent. This grant application seeks to address the most critical phase of this public-private partnership, the buildout of services to areas that currently do not have broadband access. This will ensure all county residents can experience the opportunities presented by an increasingly connected world, including access to education, healthcare services, and employment opportunities.

The remaining unserved passings comprise some of the most rural and remote locations in the county. However, both Cox and New Kent County value true digital equity, where all residents have comparable access to the high-speed internet service that has become so central to our daily lives. In pursuit of that value and of universal coverage in the county, the project area focuses on 12 clusters that are spread across the county and are currently unserved by Cox or any other provider able to offer broadband speeds at the time of this application. These clusters represent 1,715 unserved homes and 195 miles of fiber network.

<u>Unserved Clusters</u>

Homes Passed

Estimated Fiber Miles

Autumn Hills Revision

25

1.91

Barhamsville Revision

487

57.52

Crumps Mill Road Revision

54

5.61

Dispatch Road Revision

76

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10.05

Elysium Drive Revision

27

0.94

Good Hope Road Revision

257

31.22

NW New Kent Revision

353

41.12

Olivet Church Road Revision

131

16.07

Pocahontas Trail Revision

105

14.12

Stage Road Revision

40

3.34

Talleysville - Old Church Road Revision

128

9.26

Tunstall Road Revision

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- <u></u>		
	32	
	3.9	
	Total	
	1,715	
	195.06	

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2. List existing providers in the proposed project area and the speeds offered. Describe your outreach efforts to identify existing providers and how this information was compiled with source(s).

Answer:

As previously explained, New Kent County has conducted extensive community outreach to identify the connectivity challenges for citizens and businesses in the County. This was conducted in the form of surveys and direct contact by local leadership. This outreach indicated there were limited options for residents in several parts of the County. As also mentioned earlier, New Kent County issued an RFP to solicit proposals from interested broadband providers and determined the proposal from Cox Communications was most suited to achieve the County's goals.

This data collection effort, in tandem with the I3 Connectivity Explorer, the Broadband USA and ESRI broadband availability map, USDA ReConnect maps, FCC CAF II maps and of course, the recent Commonwealth Connections statewide coverage map assembled by DHCD and Virginia Tech, we were able to determine the following service availability in the area. However, it is important to note that of the providers identified, only Cox Communications currently holds a video franchise agreement to operate a wired network in the County and the other providers listed below may have limited availability and uncertain speeds based on the nature of wireless internet:

Wireless Providers

- AT&T Mobility
- Sprint
- T-Mobile
- Verizon Wireless
- StraightUpNet

Wired Broadband Providers

Verizon Virginia DSL/Dial-up

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3. Describe if any areas near the project have received funding from federal grant programs, including but not limited to Connect America Funds II (CAF II), ACAM, ReConnect, Community Connect, and Rural Digital Opportunity Funds (RDOF). If there have been federal funds awarded near the project area(s), provide a map showing these areas, verifying the proposed project area does not conflict with these areas. Label Map: Attachment 2 – Documentation on Federal Funding Area.

Answer:

New Kent County had three companies that won RDOF census blocks groups; Space Exploration, Technologies Corp. (SpaceX), Connect Everyone, LLC (Starry), and Wilkes Telephone Membership Corp (RiverStreet). The FCC recently concluded that it would not be providing RDOF funding to SpaceX because it did not meet the speeds promised. Additionally, in 2021 RiverStreet notified the FCC of its intent to default on 39 of the 136 blocks it was awarded in Virginia. It possible RiverStreet may abandon their remaining blocks in New Kent County as well. Starry's RDOF blocks do not appear to be in this grant application project area.

Considering that construction has not yet started on any remaining RDOF blocks that may be in conflict with this application and further defaults are likely to impact New Kent County residents, we are submitting this application regardless of any potential RDOF overlap.

4. Overlap: To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds below 100/20 Mbps and with less than 25% service overlap within the project area for wireless projects and 20% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. Label Attachment: Attachment 3 – Documentation Unserved Area VATI Criteria.

Answer:

There is no overlap, these areas do not have a current provider meeting the broadband speed requirements.

- 5. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 25 Megabits per second download and 3 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 4 Passings Form.
 - a. Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
 - b. If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
 - c. If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise. Describe the methodology used for these projections.
 - d. If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.
 - e. Provide the number of passings in the project area that have 25/3 Mbps or less. Describe the methodology used for these projections. (up to 15 points)

Answer:

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- a. Number of Residential, business, non-residential and community anchors in prosed project area.
 - 1. 1,715 homes
- b. If applicable, of the total number RDOF passings, provide the number of residential, business, non-residential and community anchors in prosed project area.
- 1. Assuming additional blocks are not in default, 1,183 locations appear to be in the RDOF blocks awarded to RiverStreet
- c. If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise. Describe the methodology used for these projections
- 1. No homes will require special construction costs beyond the costs defined in the derivation worksheet.
- d. If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.
- 1. No homes will require special construction costs beyond the costs defined in the derivation worksheet.
- e. Provide the number of passings in the project area that have 25/3 mbps or less.
 - 1. 1,715 homes
- f. Describe the methodology used for these projections.
- 1. The County conducted a detailed community broadband study and RFP process as described under question #1.

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6. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF) are included in the VATI application area. If RDOF areas are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. Label Attachment: Attachment 5 – RDOF Awarded Areas Form in VATI Area

Answer:

New Kent County had three companies that won RDOF census blocks groups; Space Exploration, Technologies Corp. (SpaceX), Connect Everyone, LLC (Starry), and Wilkes Telephone Membership Corp (RiverStreet). The FCC recently concluded that it would not be providing RDOF funding to SpaceX because it did not meet the speeds promised. Additionally, in 2021 RiverStreet notified the FCC of its intent to default on 39 of the 136 blocks it was awarded in Virginia. The RDOF blocks in question for this application in New Kent County include: 511277001001, 511277002001, 511277002002, 511277003001, 511277003003.

Considering that construction has not yet started on any remaining RDOF blocks that may be in conflict with this application and further defaults are likely to impact New Kent County residents, we are submitting this application regardless of any potential RDOF overlap.

7. **For wireless projects only:** Please explain the ownership of the proposed wireless infrastructure. Please describe if the private co-applicant will own or lease the radio mast, tower, or other vertical structure onto which the wireless infrastructure will be installed.

Answer:

NOT APPLICABLE

8. Network Design: Provide a description of the network system design used to deliver broadband service from the network's primary internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Provide a detailed explanation of how this information was determined with sources. Provide information on how capacity for scalability, or expansion, of how the network can adapt to future needs. If using a technology with shared bandwidth, describe how the equipment will handle capacity during peak intervals. For wireless projects, provide a propagation map for the proposed project area with a clearly defined legend for scale of map. Label Map: Attachment 6 – Propagation Map Wireless Project.

Answer:

Access to highspeed fiber optic broadband service is essential for all citizens of New Kent County and stimulates economic activity, creates jobs, promotes industry, and trade, increases the values of property, and otherwise benefits the citizens of New Kent County. To facilitate the expansion of highspeed fiber optic broadband services to the unserved citizens of New Kent County, the County issued a request for proposals seeking the qualified providers to extend affordable highspeed fiber optic broadband internet service access to unserved portions of New Kent County. Cox is a qualified telecommunications provider that submitted a proposal in response to the RFP and has the capability to deliver highspeed fiber optic broadband service to the residents of New Kent County. Cox will deploy a fiber-optic network, outlined below, that will provide ultrafast, reliable, symmetrical internet service.

National Network Background - Cox operates a high-speed, national fiber optic backbone comprised of tens of thousands of fiber miles. The national network is self-healing through the strategic deployment of core infrastructure components. Multiple diverse paths help ensure the network maintains ample capacity to handle peak traffic periods and that backbone locations avoid isolation in the event of a fiber cut.

Cox's highly diverse and resilient network is actively managed by a national team of network professionals

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who monitor and manage the Cox network from various network operations centers. Their forward-thinking network management and service assurance philosophy means we have software-enabled and virtualized significant portions of the network to proactively and reactively address any temporary customer or network issues in a timely and efficient manner.

Residential Fiber Network Overview - As bandwidth demands of the broadband Transport Networks continue to proliferate, Cox has increased the deployment of fiber in the network. FTTx (Fiber-to-the-X) networks offer symmetrical Gigabit data speeds by building fiber into the customer premise. The term "FTTx" encompasses all the various deployment types in the family, such as FTTH (Fiber-to-the-Home) and FTTP (Fiber-to-the-Premise). FTTx networks leverage a point-to-multipoint protocol called PON (Passive Optical Network) for distribution via passive optical splitters. There are multiple types of PON; Cox has been deploying GPON (Gigabit PON) exclusively for residential services.

Cox FTTx architecture is divided into two major areas: the Transport Network and the Distribution Network. The Transport Network uses digital Ethernet optics for transport to the targeted area. The shorter-range Distribution Network uses a series of passive optical splitters for PON distribution out to each potential customer passing. The demarcation between the Ethernet access and PON distribution domains is an OLT (Optical Line Terminal) located within the targeted service area. The OLT defines the type of PON being distributed and is the only active component found in the Outside Plant. Within the Distribution Network is another essential element called an ODN (Optical Distribution Network). In its physical form, an ODN is typically a cabinet containing passive optical components (splitters and WDMs). Still, the ODN also represents a sub-group or boundary of customer passings fed by a common ODN cabinet for network management purposes. Finally, the CPE (Customer Premise Equipment) termination of the PON network is an ONT (Optical Network Terminal), which converts PON back to Ethernet for handoff to the CPE gateway & set-top boxes in a customer's home and allows them to access services over their FTTx network.

New Kent County Fiber Deployment Plan – The project will first prioritize the completion of work in Barhamsville and the Northwest portion of New Kent County. The Talleysville-Old Church Road cluster was added to the priority list as Cox construction teams must build through that cluster in order to reach the Northwest cluster of the County. Cox has already begun engineering and design necessary to start the permitting for this fiber network and is working with property owners to obtain necessary access approvals. Although VATI funding may not be announced for several months after the application deadline, the County is eager to see residents obtain service and has directed Cox to begin work as soon as possible. Work in these three areas is slated to begin in Fall 2022. Homes will be released for service as soon as their work is completed in a neighborhood. The first set of residents will be able to start accessing services as early as April 2023. Cox will work concurrently in adjacent clusters as teams are available to complete the county expansion within 24-28 months of permitting approvals. The detailed timeline for each project can be found in the Attachment 7.

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9. Speeds: Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. List the private co-applicant's tiered price structure for all speed offerings in the proposed project area, including the lowest tiered speed offering at or above 100/20 Mbps. (up to 10 points)

Answer:

The proposed fiber-to-the-home construction project will offer several broadband symmetrical speed tiers, up to 1 Gigabit. Additionally, all other Cox services, including voice, video, and automation as well as their full panoply of business and carrier-grade services will be available.

The Cox network is designed to provide seamless and reliable broadband access for all customers. Cox has been a leader in fiber-based technology and is well versed in the project phasing and timelines required to meet strict deadlines. Cox will offer up to 1G speed to every home in this expansion project. Cox plans for continued investment in technology and their infrastructure; by doing so, they are enabling their network to bring residential customers multi-gigabit symmetrical internet speeds in the coming years.

You can see Cox's list of service offerings for fiber customers in the chart below:

DOWNLOAD SPEED (Mbps)

UPLOAD SPEED (Mbps)

MONTHLY RECURRING PRICE FOR PACKAGE*

AFFORDABILITY OFFERING

Connect2Compete

100**

100

\$9.95

YES

ConnectAssist

100***

100

\$30.00

YES

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Essential with Pano

100****

100

\$49.99

\$19.99 with ACP

Preferred

250

250

\$49.99

\$19.99 with ACP

Ultimate

500

500

\$69.99

\$39.99 with ACP

Gigablast

1,000

1,000

\$99.99

\$69.99 with ACP

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^(*) All pricing shown is 12 month promotional term agreements, includes free easy connect (self install) or professional connect at \$100. Price excludes taxes, surcharges, equipment, and usage-based charges (data overages above 1.25TB monthly). A credit check and/or deposit may be required.

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(**) This is the Cox offering named Connect2Complete, is available to households that are defined as low-income families with children in school (k-12) that receive government assistance. The government subsidy programs need to be one of the following: National School Lunch, SNAP, TANF, Head Start, WIC, Low Income Home Energy Assistance Program, and/or Public Housing.

(***) This is the Cox offering named ConnectAssist, is available to households that are defined as low-income that are receiving government assistance. The government subsidy programs need to be one of the following: SNAP TANF, Head Start, WIC, Low Income Home Energy Assistance Program, Public Housing, Pell Grant, Veterans Pension, Tribal Programs, Supplemental Security Income. and/or Medicaid.

(****) Everyday Low Price Term Agreement is required for all Preferred, Ultimate, and Gigablast internet offers as presented. No-Term Agreement versions of all offers are available for \$10 more/month. Speeds offered above are for new fiber build locations

Additionally, all Cox internet plans come with access to more than 3 million Wifi hotspots nationwide.

Cox Business also offers customers enterprise internet solutions, dedicated fiber, HFC internet and managed Wifi solutions to meet the individual needs of businesses. With symmetrical speeds up to 10 Gbps, there are solutions to support any sized business.

In response to the increase in residents shifting to a work-from-home model, Cox Business launched an enterprise-grade work-from-home connectivity solution which would be available to residents benefitting from this last mile extension. This is a separate internet connection that goes directly to the employee's home and has the capability to provide remote staff with company-provided services, including broadband, Wifi, McAfee endpoint security and Malblock, to help ensure staff members have the same options for connectivity as if they were working in the office.

10. Explain how the proposed project achieves universal broadband coverage for the locality or fits into a larger plan to achieve universal broadband coverage for the locality. If applicable, explain the remaining areas of need in the locality and a brief description of the plan to achieve universal broadband coverage. (up to 50 points)

Answer:

As previously mentioned, New Kent County has been actively working toward universal coverage and has committed significant County time and resources to this work since 2019. Our proposed 2023 VATI project area is the result of that work and the partnership with Cox through the RFP process. This effort will make significant progress towards universal coverage in New Kent. The County will work with the Cox to leverage existing state and federal grant funding to expand broadband to reach the remaining unserved homes not covered by this application. Field surveys and citizen outreach will help to identify those remaining homes. With all these efforts, the County hopes to reach universal coverage by 2026.

Expanding the Cox network to reach these residents will help New Kent County close the digital divide and ensure digital equity for households of all incomes and economic statuses. For too long, small and rural communities have been left out of the digital economy because of the cost to build to them. Bringing Cox's advanced digital internet, video, telephone, home security and automation services to residents and businesses in these unserved areas will enable them to participate like everyone else, now and into the future.

11.

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Project Readiness

Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants are encouraged to extensively discuss, where applicable, easements relating to railroad crossings, federally-owned lands and parks, partnerships with the Virginia Department of Transportation, and mobile home parks. Applicants must include Memorandums of Understanding (MOUs)or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant; (up to 10 points)

Answer:

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On August 18, an official agreement between the County of New Kent and Cox Communications Hampton Roads was fully executed to develop a 100% fiber-optic network throughout the County. The first phase of the public-private partnership between the county and Cox will enable the buildout of services to residents that currently do not have broadband access. Cox has already begun engineering and design necessary to start the permitting for this fiber network and is working with property owners to obtain necessary access approvals.

The plan demonstrates a commitment to reach a 2024 completion date with a steady and phased-in process to include: creating project account, performing field survey for construction, completing Dominion Power pole application process, designing project, securing VDOT permits and private property easements, ordering project materials, setting power supply units, performing aerial and underground construction, activating the network, and releasing the addresses. Cox Communications personnel overseeing the planning and construction phases have thoroughly reviewed the project management plan and timeline to confirm that all resources are available to complete the project by the required time frame.

The timeline document details the overall steps that must be completed to facilitate network construction and service delivery from Cox in the unserved clusters. A project account will be created in Cox's system for each cluster which will enable the completion of field surveys to identify specific routes, pole attachments, potential network equipment locations, and private easements that will be needed. As much of the network as possible will be constructed in the Virginia Department of Transportation (VDOT) right of way utilizing existing utility poles. However, there are likely to be private roads and driveways that must be accessed to deploy the network entirely. Securing the necessary easements from private property owners will be critical to the success of this project. If private property owners delay or deny easements across their property, additional work will need to be done to try and identify alternate routes which may impact the overall timeline and cost for completion of a cluster. While they are working to obtain the necessary easements and pole attachment permits, Cox's team will also be working on field construction drawings needed to ensure they obtain the necessary materials and equipment. Their engineers will also be installing/configuring any necessary equipment needed in their Telecommunications Center (TC) located in New Kent County which connects the county to their national network through direct fiber links to their Regional Data Centers (RDC) in Norfolk and Virginia Beach.

Once materials and equipment are obtained/configured and access rights are approved, aerial and underground construction can begin on the FTTx network. Depending on the size of the cluster, construction of the transport and distribution portions of the network could take anywhere from 4 to 20 months to complete. As neighborhoods are completed, the network will be activated and tested to ensure it meets all required standards before the addresses are released into the system. Once addresses are released, residents can sign up for service and schedule the free installation of the necessary fiber connection line "drop" on their property to connect their home to the new FTTx network.

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12. Has the applicant or co-applicant received any VATI grants? If so, provide a list of these grants, with a detailed summary of the status of each.

Answer:

Cox Communications holds significant experience with VATI Grant program, being part of one of the first VATI awards made in FY2017. Cox successfully partnered with Gloucester County to bring last mile service to more than 100 homes and businesses in a previously unserved area of the County. Since that time, Cox has partnered with localities to apply for and receive three more VATI awards to complete broadband expansion projects in the City of Chesapeake and Roanoke County.

Cox is currently in the early stages of 2022 awarded VATI projects in both Roanoke County and the City of Chesapeake, which jointly represent more than \$1.2 million in private investment, and which will reach a combined 675 previously unserved residences and businesses.

Cox has teams focused specifically on reaching unserved areas, and these teams include industry experts on RFP response, broadband mapping, grant applications and project management. This dedication of resources and staff capacity provide even more assurance that Cox will fulfill its VATI obligations.

13. Matching funds: Complete the funding sources table indicating the cash match and inkind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum20% match is required to be eligible for VATI, the private sector provider must provide10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. If applicants and co-applicants are seeking to include prior expended funds as matching funds, Attachment 11 must be completed. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding; Attachment 11 - Prior Expended Match Form

Answer:

Total Project Costs \$11,619,917.98

Cox Investment \$6,100,456.94

VATI Request \$5,519,461.04

14. Leverage: Describe any leverage being provided by the applicant, co-applicant, and partner(s) in support of the proposed project. (up to 10 points)

Answer:

New Kent County will continue to work with Cox Communications to explore opportunities to reduce project cost by sharing resources, supporting easement needs, and working with other utility companies to find cost savings.

15.

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Communications Plan: Describe efforts to keep the public informed of project progress and the broadband adoption plan.

- a. Explain how you plan on communicating the project status to stakeholders, including but not limited to County leadership, project areas residents, etc. (Up to 10 points)
- b. Explain how you plan to promote customer take rate, including marketing activities, outreach plan, and other actions to reach the identified serviceable units within the project area. Provide the anticipated take rate and describe the basis for the estimate. (up to 10 points)
- c. Describe any digital literacy efforts to ensure residents and businesses in the proposed project area sufficiently utilize broadband. Please list any partnering organizations for digital literacy, such as the local library or cooperative extension office.

Answer:

a. Explain how you plan on communicating the project status to stakeholders - The broadband agreement between the County and Cox executed in August 2022 requires regular project progress and broadband adoption updates to the County administration and County residents. These updates will be completed through briefings at Board of Supervisors meetings, Town Halls with residents, and online progress updates on County social media platforms.

Additionally, Cox is required to submit monthly reports, no later than the 10th day of each month, to the County which shall include:

- (i) Construction Progress; and
- (ii) Expenditures to date; and
- (iii) Number of serviceable passings; and
- (iv) Number of subscribers (i.e. residential, business, and community anchors); and
- (v) Number of Clusters Completed and speed tests.

Cox has long been a steadfast and active service provider in New Kent community, their ongoing commitment to the region has fostered a robust network of stakeholder connections that can be leveraged before, during and after our VATI build to keep the entire community duly updated.

Specifically, regarding any market expansion project, such as this proposed VATI project, Cox's public and government affairs staff will coordinate several press releases—a signaling release; a release prior to groundbreaking; when the first home is connected; and when the project is complete—to keep the media and community informed.

b. Explain how you plan to promote customer take rate, including marketing activities, outreach plan, and other actions to reach the identified serviceable units within the project area. Provide the anticipated take rate and describe the basis for the estimate.

Cox will actively promote its products and services in New Kent County through a multi-faceted marketing

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campaign that includes both direct and indirect sales, digital advertising, and television commercials. This build will benefit from all national and local advertising investments by Cox Communications.

Marketing plans will include Direct Sales Representatives going door-to-door to inform residents of the services and offers that will be available to them, as well as Direct Mail to each home that will guide residents to Cox's website for updates. As residents provide their contact information and request updates, Cox will reach out via email and text messages as service becomes available in their area.

Cox has also produced a suite of new marketing materials, including door hangers, newsletters, direct mail, sandwich boards and flyers, to distribute within the target community in the pre-construction, construction and launch phases of the project.

Cox has been serving New Kent County for more than 20 years, with local employees servicing homes and businesses throughout the region. The Cox brand is well-recognized as a local technology leader and a company that is committed to the communities it serves. The anticipated take rate is 60 percent based on previous expansion projects.

c. Describe any digital literacy efforts to ensure residents and businesses in the proposed project area sufficiently utilize broadband. Please list any partnering organizations for digital literacy, such as the local library or cooperative extension office.

Cox has several resources for families and businesses in support of digital literacy and maximizing broadband capabilities. Cox recently announced a new digital learning platform available to Connect2Compete customers, to keep kids engaged in academics while they're out of school. MyFuture is The Boys & Girls Clubs of America's digital platform that empowers children and teens to learn new skills, share accomplishments and earn recognition and rewards via gamification in a safe and fun online environment. This tool is accessible from Cox's Digital Academy, Cox's online learning platform full of computer literacy tips, education videos, tutorials and interactive games. The Digital Academy is a collaboration between several partners, including the American Library Association, DigitalLearning.org, Common Sense media, and Connect Home. Cox's YouTube channel (youtube.com/user/CoxCommTV) has a large catalog of resources available to customers, including how to get the most out of their products and how to troubleshoot simple issues with technology like resetting a modem. For business customers, CoxBlue.com offers resources for small and medium sized businesses – everything from blog posts on small business trends to how to reopen your business after a shutdown.

The Heritage Public Library is a key community partner in promoting digital literacy and access to services unavailable to many in New Kent County. This regional library holds over 53,000 materials including books, and audio books, DVDs, videos, music CDs, newspapers, and magazines. Heritage Public Library offers e-books, e-Magazines, e-Audio books, and online databases as well. The library system holds over 53,000 materials including books, and audio books, DVDs, videos, music CDs, newspapers, and magazines. Heritage Public Library offers e-books, e-Magazines, e-Audio books, and online databases as well.

In addition to being an early signee of the FCC's Keep America Connected pledge at the onset of the pandemic in 2020, several digital equity efforts by Cox have recently been put into place: Cox announced its participation in the FCC's Emergency Connectivity Fund to deliver internet services to students, educational staff and library

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patrons who would otherwise lack a sufficient connection to the internet for remote learning and remote library services, and then became a proud participating provider in the permanent Affordable Connectivity Program when it launched in 2022. Cox announced that the temporary connection speed increase for Connect2Compete, prompted by the COVID-19 pandemic, would become the new standard speed for Connect2Compete internet service. The connection speed was bolstered from 25 Mbps to 50 Mbps. Then, earlier this year, Cox increased speeds again. This spring, they increased speeds for Preferred tier customers by nearly 70% (with no accompanying increase in price), and doubled speeds for both ConnectAssist and Connect2Compete customers. These changes mean Preferred tier customers can now download at a speed of 250 Mbps, and ConnectAssist and Connect2Compete customers' download speeds increased from 50 Mbps to 100 Mbps.

16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co applicant's history and experience with managing grants and constructing broadband communication facilities.

Answer:

- 1. Cox Communications Construction Manager Chris Phillips, Construction and Planning Manager
- 2. Cox Communications County Liaison Erin Rice, Senior Manager of Public Affairs
- 3. New Kent County Fiscal Agent Rodney Hathaway, County Administrator
- 4. New Kent County Grant/Project Manager: Rodney Hathaway, County Administrator

New Kent County is working with Cox Communications, a privately-held, nationally recognized provider of broadband, digital cable television and other telecommunications services. With 125,000 miles of network infrastructure nationwide, Cox Communications is the third-largest telecommunications corporation in the United States. Cox and New Kent County entered into their first cable television franchise agreement 20 years ago. Since that time, the county and Cox have experienced a collaborative and mutually beneficial working relationship, including recent efforts to connect unserved residents throughout the county. Despite these efforts, certain rural areas continue to present great challenges; this grant opportunity presents a viable means and solution to expand services where it would otherwise be financially unfeasible.

17. Project Budget and Cost Appropriateness

Budget: Applicants must provide a detailed budget that outlines how the grant funds will be utilized, including an itemization of equipment, construction costs, and a justification of proposed expenses. If designating more than one service area in a single application, each service area must have delineated budget information. For wireless projects, please include delineated budget information by each tower. Expenses should be substantiated by clear cost estimates. Include copies of vendor quotes or documented cost estimates supporting the proposed budget. Label Attachments: Attachment 12 – Derivation of Costs; Attachment 13 - Documentation of Supporting Cost Estimates. (up to 10 points)

Answer:

As a nationwide company, Cox uses internal employees and corporate contracted resources to complete and perform the proposed work as outlined in this grant application. Cox is able to leverage its scale when it comes to the purchasing of equipment and establishing reasonable contract rates for additional labor as needed. Therefore, Cox has the benefit of not having to request quotes for individual projects; the costs are standard, so Cox is able to build them in to the costs presented in the table provided. These costs are not adjusted based on geographic location, project size, source of funding, or any other factors. Contracted rates are considered proprietary. It is our hope that this explanation will be sufficient in demonstrating to the review board that Cox has done its due diligence to negotiate rates that reflect a responsible use of resources both for the planning and completion of these last mile projects.

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- 18. The cost benefit index is comprised of state cost per unit passed. Individual cost benefit scores are calculated and averaged together to create a point scale for a composite score. Provide the following:
 - a. Total VATI funding request
 - b. Number of serviceable units (up to 125 points)

Answer:

- a. Total VATI funding request \$5,519,461.04
- b. Number of serviceable units 1,715
- c. State cost per unit passed \$3,218.34
- 19. Commonwealth Priorities (Up to 50 points)

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. If applicable, describe the following:

- a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband.
- b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies.
- c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 100/20 mbps, include information regarding the internet service provider's participation in the Affordable Connectivity Program
- d. The co-applicant's efforts to mitigate supply chain constraints, including labor shortages and order-to-delivery delays on telecommunications materials required to construct broadband networks.
- e. The applicant's and co-applicant's efforts to promote broadband adoption, including, but not limited to: telehealth, smart farming, e-entrepreneurship, and distance learning.

Answer:

a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband.

This Proposal is primarily focused on extending service to unserved homes; however, it will also pass several businesses and churches along the way which will be able to subscribe to commercial services from Cox.

- b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies. N/A
- c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 100/20 mbps, include information regarding the internet service provider's participation in the Affordable Connectivity Program.

In addition to access, affordability is another barrier to adoption. Cox has been successful with its cornerstone initiatives for families who cannot afford an internet connection in the home. Their goal is to improve educational access and help shape the lives of children and families, who, through no fault of their own, do not have regular access to the internet to do homework, research their interests and prepare them for the

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jobs of the future. For more than 10 years, Cox has offered its low-cost internet program, Connect2Compete, connecting families with school aged children to a reliable, high-speed, in-home internet connection. Building on this success, they now offer ConnectAssist, another low-cost option with a broader range of qualifications and actively participate in the Federal Communications Commission's Affordable Connectivity Program (ACP).

We will not only connect more New Kent residents to the internet, we will connect them to an opportunity to work, learn, and manage their health remotely and access entertainment. We look forward to continuing our efforts to bridge the digital divide and bolster digital equity through this partnership opportunity.

d. The co-applicant's efforts to mitigate supply chain constraints, including labor shortages and order-to-delivery delays on telecommunications materials required to construct broadband networks.

As a nationwide company, Cox uses internal employees and corporate contracted resources to complete and perform the proposed work as outlined in this proposal. Cox is able to leverage its scale when it comes to the purchasing of equipment and establishing reasonable contract rates for additional labor as needed. These national contracts give Cox priority access to necessary material and equipment, which will helps to mitigate supply chain concerns.

e. The applicant's and co-applicant's efforts to promote broadband adoption, including, but not limited to: telehealth, smart farming, e-entrepreneurship, and distance learning.

For 120 years, Cox Enterprises has been in the business of building a better future through communications, technology innovation, community investment and a commitment to conservation. The company is taking that commitment a step further by leveraging their deep community ties, strategic partnerships, and trusted customer relationships to improve health care. Cox is exploring ways to encourage a more patient-centered business model. One that is personalized, timely and relevant to where you are and what you need, and one that reduces friction and creates a better experience for patients and their families.

For many years, Cox has been a strategic partner in the deployment of healthcare technologies in the homes of patients across all of Virginia. In October 2017, Cox Communications acquired Trapollo, a leading provider of managed services that enable healthcare providers, home health agencies and insurers to successfully deploy telehealth and remote health monitoring solutions. The Cox investment in Trapollo is another example of Cox's commitment to bringing world-class healthcare to the home through innovative telehealth and home health solutions. The COVID-19 pandemic demonstrated that

Based in Sterling, Virginia, Trapollo designs, deploys and manages the non-clinical aspects of large scale nation -wide customer-sponsored telehealth and remote patient monitoring programs for chronic disease management, independent living, and employer health and wellness programs.

Cox Business Cloud Solutions (RapidScale) is a managed and hybrid-managed cloud services provider that delivers world-class, secure, and reliable global cloud computing. Businesses choose RapidScale as their cloud provider of choice because of its state-of-the-art managed DTaaS (Desktop as a Service) platform and other market-leading cloud solutions. RapidScale's award-winning 24x7x365 global support and help desk team ensure that organizations receive the most innovative technology backed up by the most highly responsive and knowledgeable service technicians in the industry, freeing up IT leaders to focus on strategy and driving their businesses forward with technology.

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Cox is also proud to offer innovative, personalized technological solutions to partner localities within its footprint. Their Smart Cities division provides commercial IoT (internet of things) solutions to businesses and communities, by leveraging its data collection and analysis platform, along with an ecosystem of solutions-oriented devices and equipment, to glean insights about a city's strengths, needs and future opportunities. From traffic management to public safety to demand for community amenities and facilities, Cox Smart Cities can fully integrate connectivity to build the connected, innovative cities of the future.

20. Additional Information

Please attach any letters of support from stakeholders. If the applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality.

Attachment 14 – Letters of Support.

Provide the two most recent Form 477 submitted to the FCC, or equivalent, as well as point, polygon, and, for wireless providers, RSSI shapefiles for the project area **in .zip file form**. With attachments 17 through 20, attach any other information that the applicant desires to include. Applicants are limited to four additional attachments.

Label Additional Attachments as:

- a. Attachment 15 -Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 16 Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area
- c. Attachment 17 For wireless applicants: shapefiles, in .zip file form, indicating RSSI projections in the application area
- d. Attachment 18 XXXXXXX
- e. Attachment 19 XXXXXXX
- f. Attachment 20 XXXXXXX

Answer:

N/A

Attachments:

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMap825202244416.pdf

Documentation of Federal Funding (CAF/ACAM/USDA/RDOF, etc...) in and/or near proposed project area.

Attachment2DocumentationonFederalFundingArea825202244504.pdf

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Passings Form (Use template provided)

Attachment4PassingsForm825202244604.pdf

Documentation of RDOF awarded area in VATI project Area (Use template provided)

Attachment5RDOFAwardedAreasForminVATIArea825202244624.pdf

Timeline/Project Management Plan

Attachment7TimelineProjectManagementPlan825202244637.pdf

MOU/MOA between applicant/co-applicant (can be in draft form)

Attachment8VATIMOUDraft825202244658.pdf

Funding Sources Table (Use template provided)

Attachment9FundingSourcesTable825202244720.pdf

Documentation of Match Funding

Attachment10DocumentationofMatchFunding825202244731.pdf

Derivation of Cost/Project Budget (Use template provided)

Attachment12DerivationofCostTotalVATI2023825202244753.pdf

Documentation of Supporting Cost Estimates

Attachment13SupportofCostEstimates825202244807.pdf

Letters of Support

Attachment14LettersofSupport825202251516.pdf

Two most recent Form 477 submitted to the FCC or equivalent

Attachment15MostRecentFCCFilings825202244825.pdf

Point and Polygon shapefiles, in zip file form, showing proposed passings and project area

Attachment16NewKentCountyVAAddressesOutsideCurrentCoxCoverage825202251827.zip

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New Kent County

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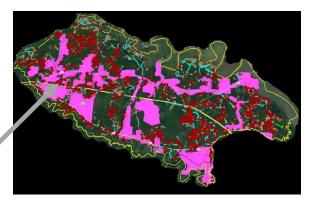
VATI 2023 Project Maps

Autumn Hills Revision Cluster

Yellow = County Border

Pink = Existing Cox Service Area

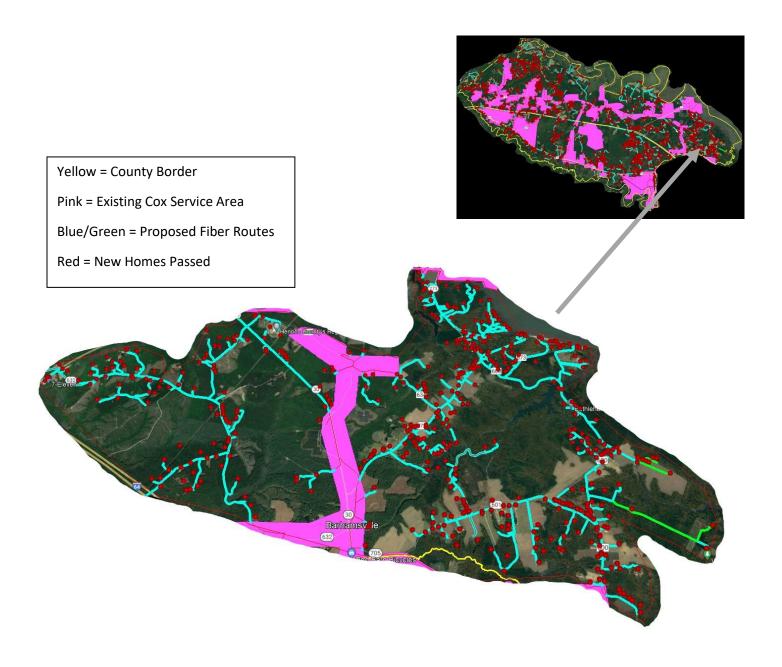
Blue/Green = Proposed Fiber Routes





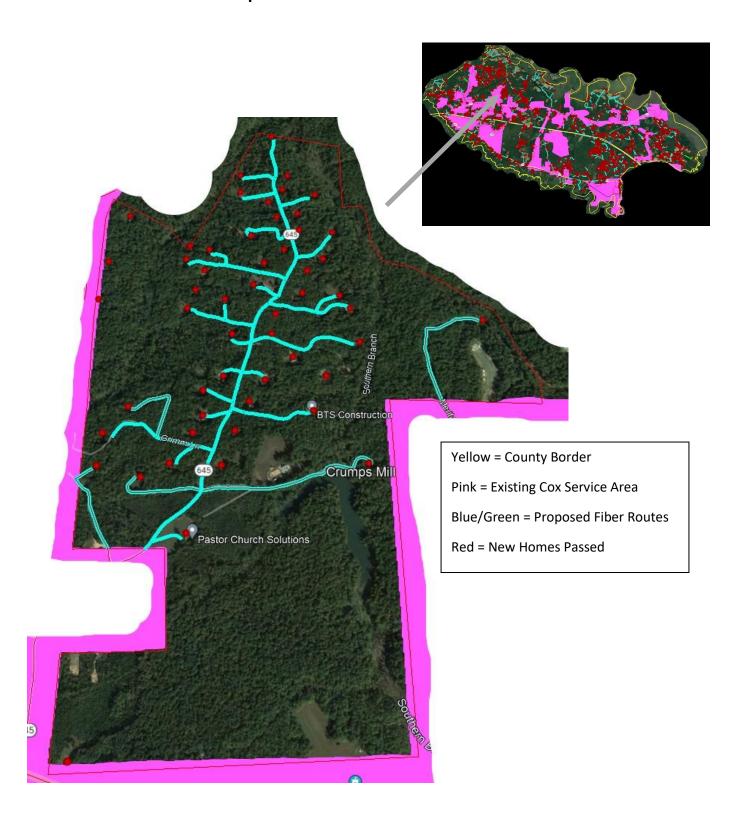


Barhamsville Revision Cluster



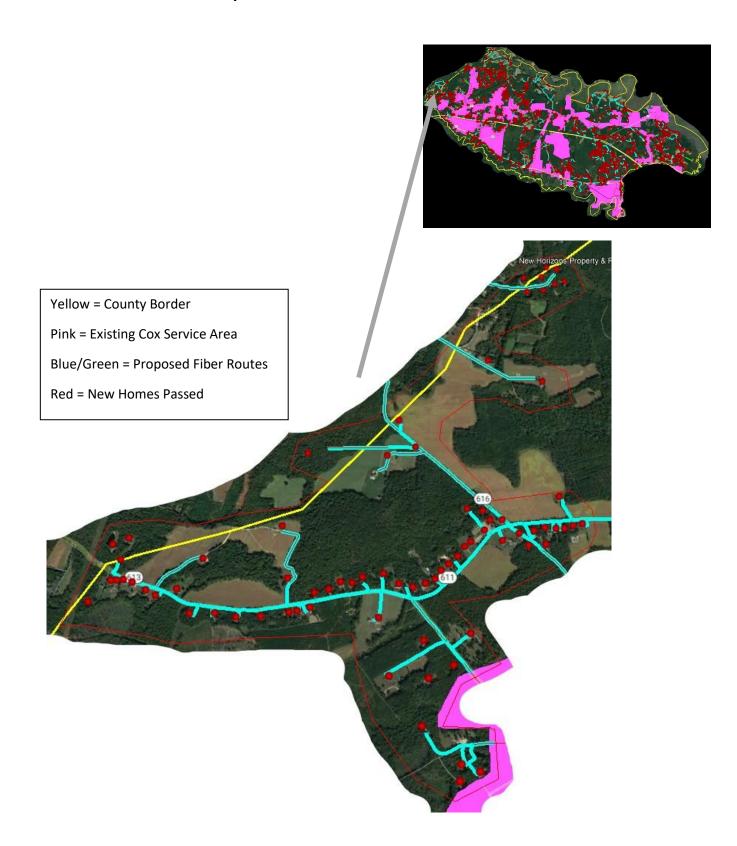


Crumps Mill Road Revision Cluster





Dispatch Road Revision Cluster





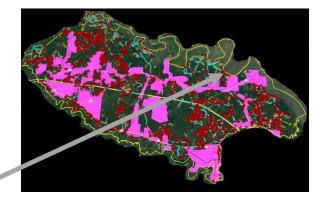
Elysium Drive Revision Cluster

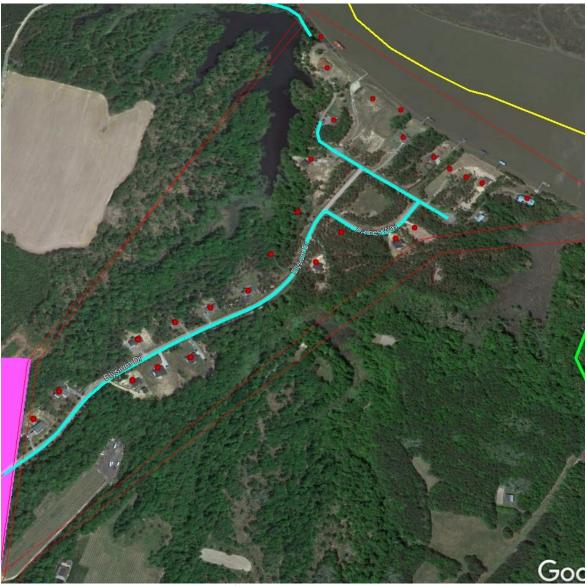
Yellow = County Border

Pink = Existing Cox Service Area

Blue/Green = Proposed Fiber Routes

Red = New Homes Passed

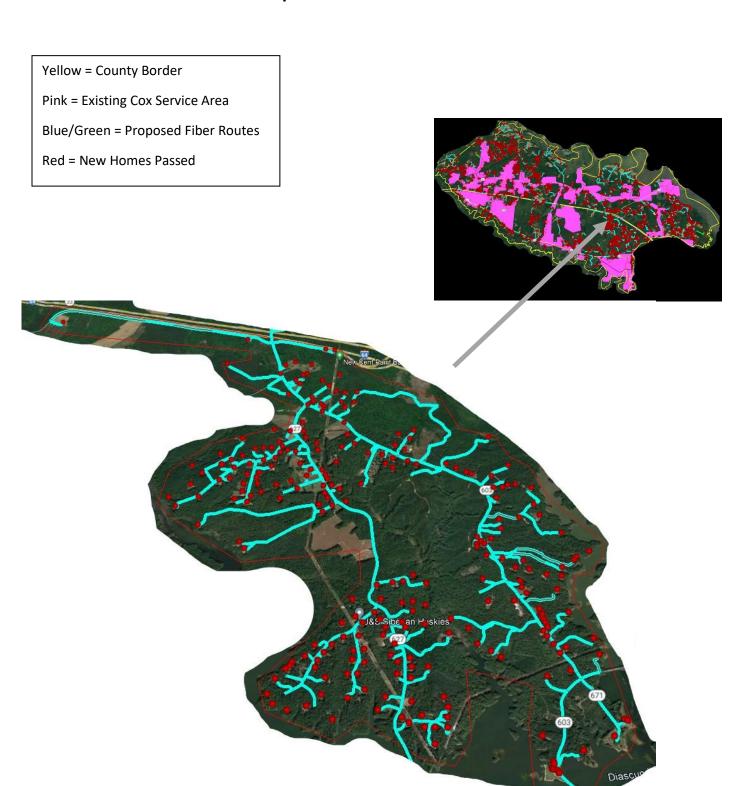




Cox Communications Proprietary and Confidential



Good Hope Road Revision Cluster



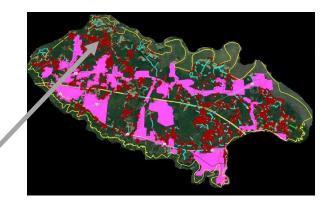


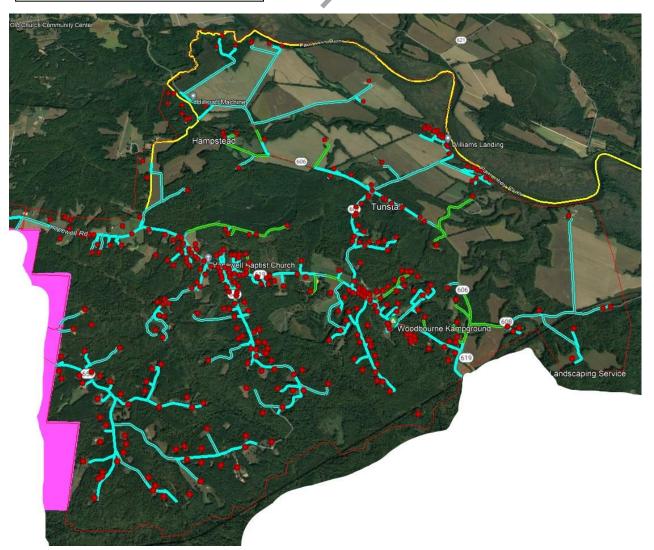
NW New Kent Revision Cluster

Yellow = County Border

Pink = Existing Cox Service Area

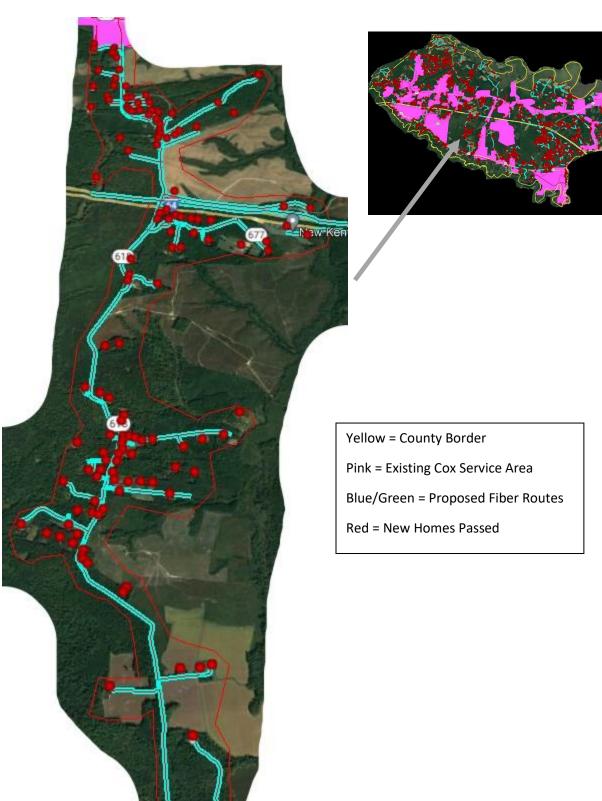
Blue/Green = Proposed Fiber Routes





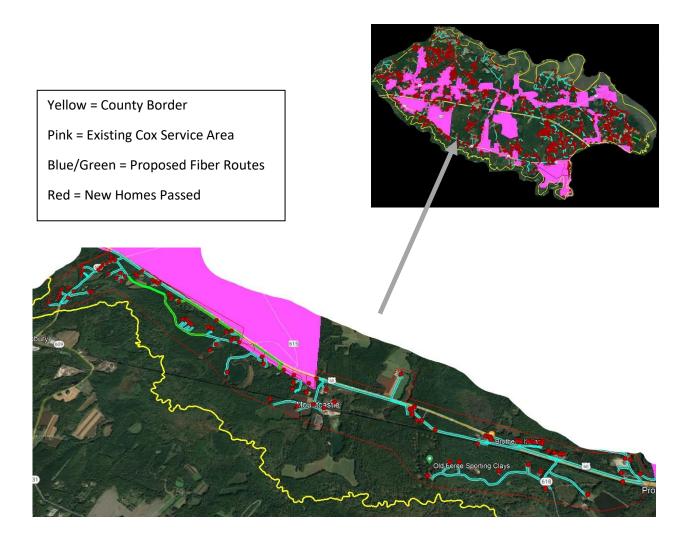


Olivet Church Road Revision Cluster





Pocahontas Trail Revision Cluster



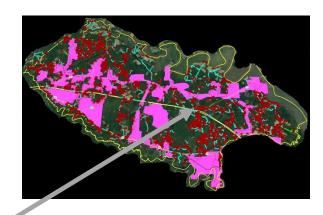


Stage Road Revision Cluster

Yellow = County Border

Pink = Existing Cox Service Area

Blue/Green = Proposed Fiber Routes





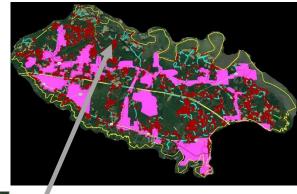


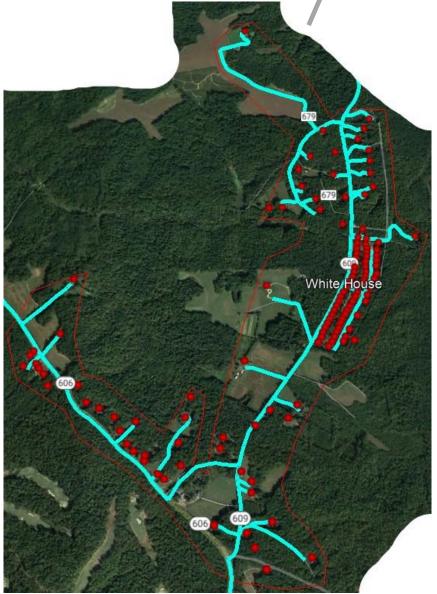
Talleysville-Old Church Road Revision Cluster

Yellow = County Border

Pink = Existing Cox Service Area

Blue/Green = Proposed Fiber Routes







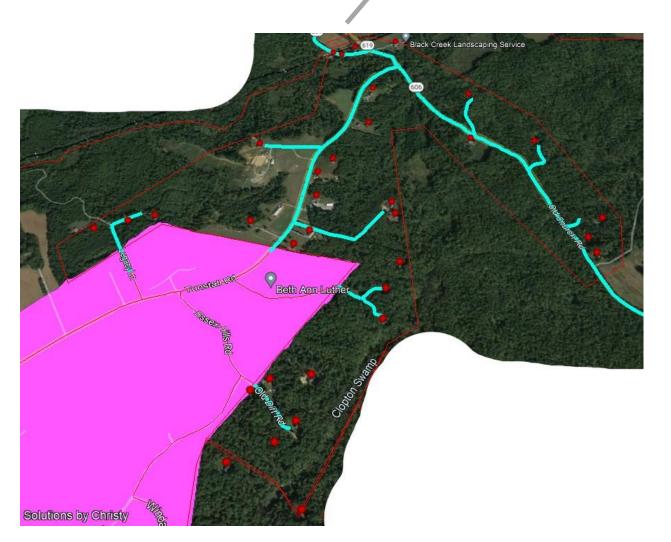
Tunstall Road Revision Cluster

Yellow = County Border

Pink = Existing Cox Service Area

Blue/Green = Proposed Fiber Routes





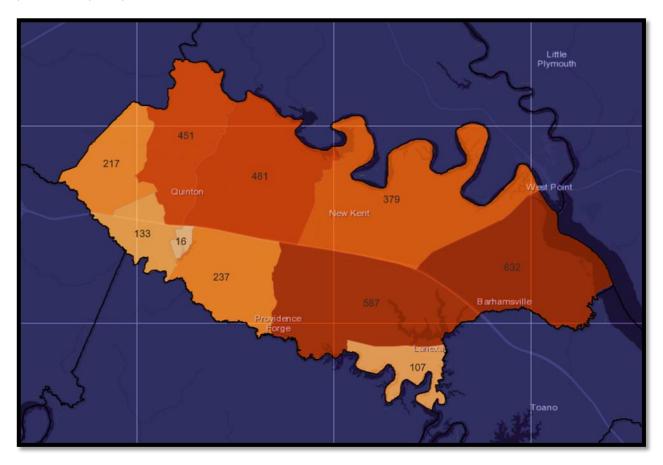
Documentation on Federal Funding Area

Rural Digital Opportunity Fund Phase I Results Data as of 12/07/20



Attachment 3 - - Documentation Unserved Areas

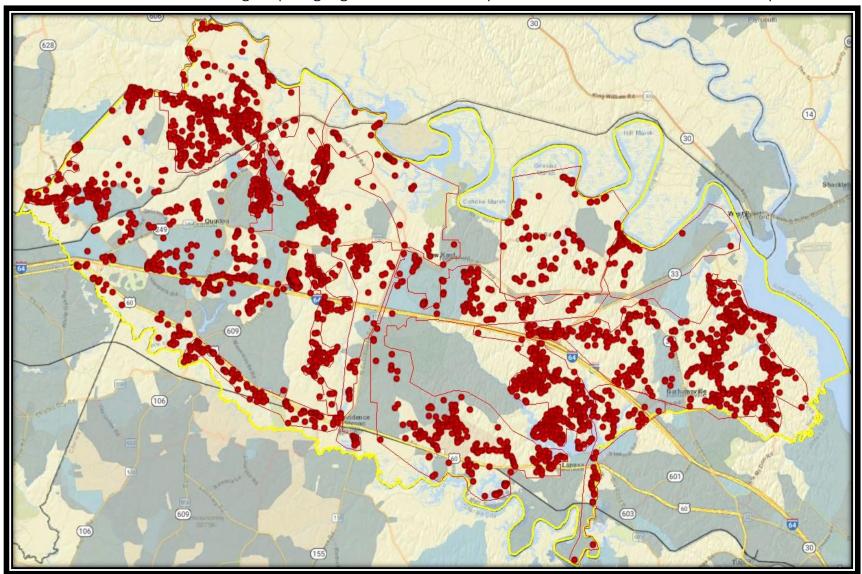
Unserved Locations by Census Block Group – The following map shows Census Block Groups in New Kent County shaded based on the estimated unserved addresses. The darker the shade the greater number of locations without broadband (at 25 Mbps/3).



Source: Rural Broadband Consulting LLC. (May 2019). *Existing Broadband State*. New Kent County. Retrieved from http://www.co.new-kent.va.us/DocumentCenter/View/5226/New-Kent-County-Existing-Broadband-State-May-2019-PDF

Attachment 3 - - Documentation Unserved Areas

Unserved Homes – The following maps highlights all the currently unserved homes in New Kent County.



Source: Cox Communications

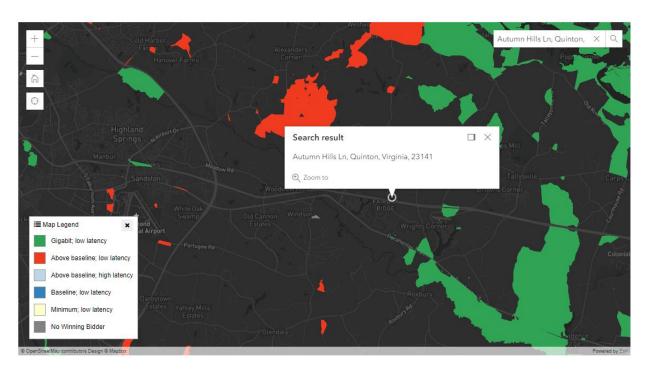
Attachment 4 - Passings Form.xlsx

Type of Passing	Number of Passings in	Passing in the Project	Passings with Special	Number of Passing with
	Project Area	Area without Special	Construction Costs	Speeds below 100/20
		Construction Costs	budgeted in application	mbps
		Required		
Residental	1,715	1,715	0	1,715
Businesses (non-home based)	0	0	0	0
Businesses (home based)	0	0	0	0
Community Anchors	0	0	0	0
Non-residential	0	0	0	0
Total	1,715	1,715	0	1,715

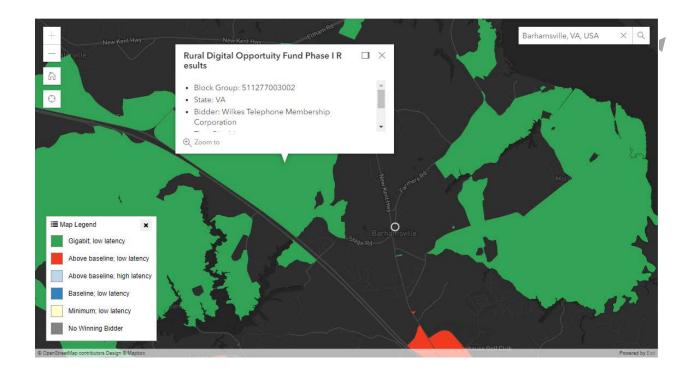
RDOF Awarded Areas Form in VATI Area

Autumn Hills Revision Cluster

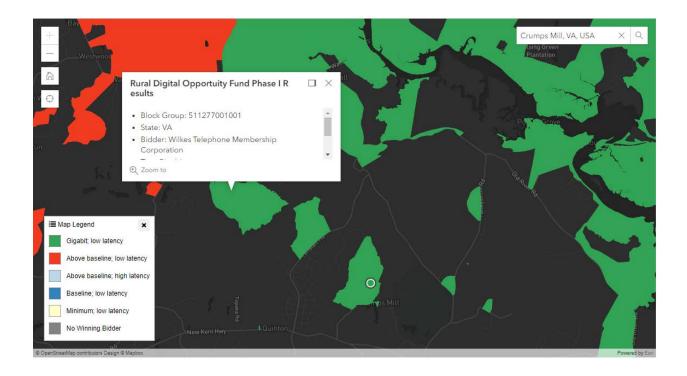
Rural Digital Opportunity Fund Phase I Results Data as of 12/07/20



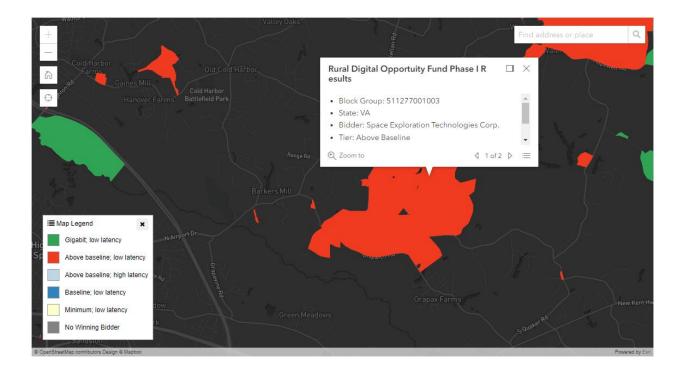
Barhamsville Revision Cluster



Crumps Mill Road Revision Cluster



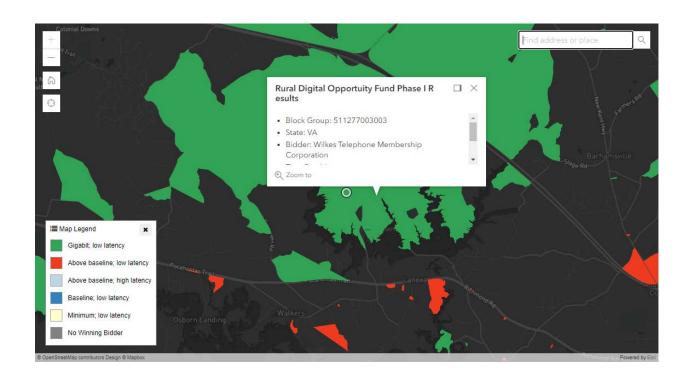
Dispatch Road Revision Cluster



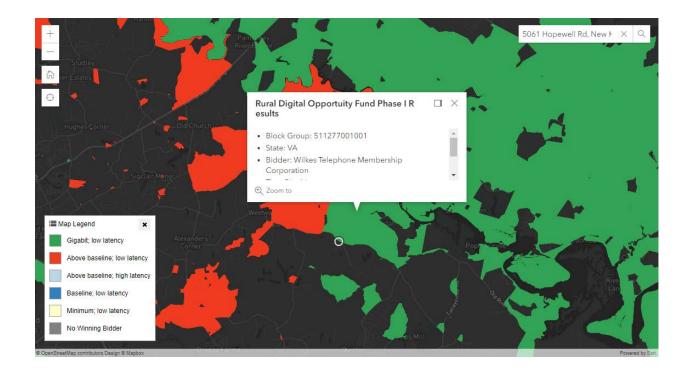
Elysium Drive Revision Cluster



Good Hope Road Revision Cluster



NW New Kent Revision Cluster



Olivet Church Road Revision Cluster



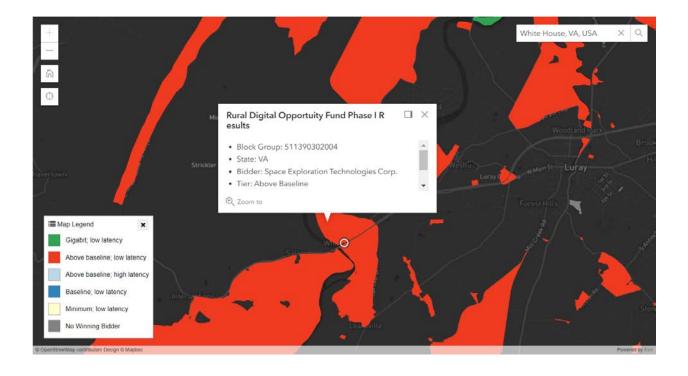
Pocahontas Trail Revision Cluster



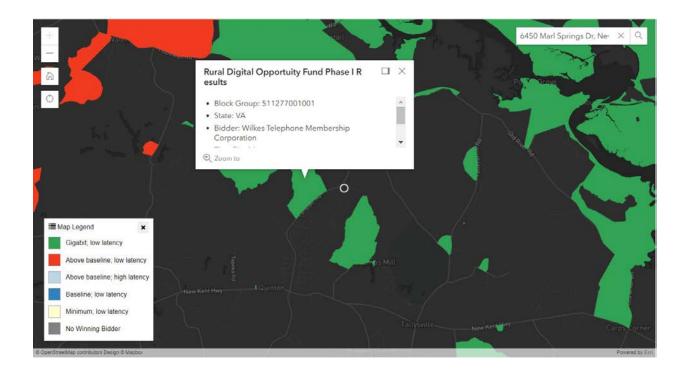
Stage Road Revision Cluster



Talleysville-Old Church Road Revision Cluster



Tunstall Road Revision Cluster



Cluster Area		TIMELIN											
Cluster Area	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Barhamsville													
Talleysville-Old Church Rd													
NorthWest													
Stage Road													
Good Hope Road													
Olivet Church													
Pocahontas Trail													
Crumps Mill Road													
Elysium Drive													
Dispatch Road													
Autumn Hills													
Tunstall Road													

1E											
Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24

BARHAMSVILLE - Priority 1

Network Miles = 57.52

Homes Passed = 487

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Cox			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Cox			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Cox			
Install and configure MTC equipment	Cox Critical Facility Engineer	Cox			
Perform aerial construction	Cox Project Planner	Cox			
Perform underground construction	Cox Project Planner	Cox			
Activate-Test the network	Cox Project Planner	Cox			
Release the addresses for service	Cox Project Planner	Cox			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024	Mar, 2024	Apr, 2024	May, 2024	Jun, 2024	Jul, 2024	Aug, 2024	Sep, 2024

TALLEYSVILLE-OLD CHURCH - Priority 2 Network Miles = 9.26 Homes Passed = 128

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Сох			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Сох			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Сох			
Install and configure MTC equipment	Cox Critical Facility Engineer	Сох			
Perform aerial construction	Cox Project Planner	Cox			
Perform underground construction	Cox Project Planner	Сох			
Activate-Test the network	Cox Project Planner	Сох			
Release the addresses for service	Cox Project Planner	Сох			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023

NORTHWEST - Priority 3

Network Miles = 41.12

Homes Passed = 353

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Cox			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Cox			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Cox			
Install and configure MTC equipment	Cox Critical Facility Engineer	Cox			
Perform aerial construction	Cox Project Planner	Cox			
Perform underground construction	Cox Project Planner	Cox			
Activate-Test the network	Cox Project Planner	Cox			
Release the addresses for service	Cox Project Planner	Cox			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024	Mar, 2024	Apr, 2024	May, 2024	Jun, 2024	Jul, 2024	Aug, 2024	Sep, 2024

STAGE ROAD - Priority 4

Network Miles = 3.34

Homes Passed = 40

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Cox			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Cox			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Cox			
Install and configure MTC equipment	Cox Critical Facility Engineer	Cox			
Perform aerial construction	Cox Project Planner	Cox			
Perform underground construction	Cox Project Planner	Cox			
Activate-Test the network	Cox Project Planner	Cox			
Release the addresses for service	Cox Project Planner	Cox			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023

GOOD HOPE ROAD - Priority 5

Network Miles = 31.22

Homes Passed = 257

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Сох			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Cox			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Сох			
Install and configure MTC equipment	Cox Critical Facility Engineer	Сох			
Perform aerial construction	Cox Project Planner	Cox			
Perform underground construction	Cox Project Planner	Сох			
Activate-Test the network	Cox Project Planner	Cox			
Release the addresses for service	Cox Project Planner	Cox			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024	Mar, 2024	Apr, 2024	May, 2024	Jun, 2024	Jul, 2024	Aug, 2024	Sep, 2024

OLIVET CHURCH ROAD - Priority 6 Network Miles = 16.07 Homes Passed = 131

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Сох			
Perform field survey for ug-aerial constr.	Cox Project Planner	Сох			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Сох			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Cox			
Install and configure MTC equipment	Cox Critical Facility Engineer	Сох			
Perform aerial construction	Cox Project Planner	Сох			
Perform underground construction	Cox Project Planner	Сох			
Activate-Test the network	Cox Project Planner	Cox			
Release the addresses for service	Cox Project Planner	Сох			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024

POCAHONTAS TRAIL - Priority 7

Network Miles = 14.12

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Cox			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Cox			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Cox			
Install and configure MTC equipment	Cox Critical Facility Engineer	Cox			
Perform aerial construction	Cox Project Planner	Cox			
Perform underground construction	Cox Project Planner	Cox			
Activate-Test the network	Cox Project Planner	Сох			
Release the addresses for service	Cox Project Planner	Cox			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024	Mar, 2024	Apr, 2024

CRUMPS MILL ROAD - Priority 8

Network Miles = 5.61

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Cox			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Cox			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Cox			
Install and configure MTC equipment	Cox Critical Facility Engineer	Cox			
Perform aerial construction	Cox Project Planner	Cox			
Perform underground construction	Cox Project Planner	Cox			
Activate-Test the network	Cox Project Planner	Сох			
Release the addresses for service	Cox Project Planner	Cox			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024	Mar, 2024

ELYSIUM DRIVE - Priority 9

Network Miles = .94

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Cox			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Cox			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Cox			
Install and configure MTC equipment	Cox Critical Facility Engineer	Cox			
Perform aerial construction	Cox Project Planner	Cox			
Perform underground construction	Cox Project Planner	Cox			
Activate-Test the network	Cox Project Planner	Cox			
Release the addresses for service	Cox Project Planner	Сох			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024

DISPATCH ROAD - Priority 10

Network Miles = 10.05

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Cox			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Cox			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Cox			
Install and configure MTC equipment	Cox Critical Facility Engineer	Cox			
Perform aerial construction	Cox Project Planner	Cox			
Perform underground construction	Cox Project Planner	Cox			
Activate-Test the network	Cox Project Planner	Сох			
Release the addresses for service	Cox Project Planner	Cox			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023
											·

Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024	Mar, 2024	Apr, 2024

AUTUMN HILLS - Priority 11	Network Miles = 1.91	Homes Passed = 25																					
Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022 Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023	Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024	Mar, 2024	Apr, 2024
Create project account	Cox Planner & Leader	Cox																					
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox																					
Secure private property easements	Cox Project Planner	Cox-Homeowners																					
Dominion Power pole application process	Cox Project Planner	Cox & Dominion																					
Prepare field construction drawings	Cox Project Planner	Cox																					
Secure County permits	Cox Project Planner	Cox & NK County																					
Order project material	Cox Project Planner	Cox																					
Install and configure MTC equipment	Cox Critical Facility Engineer	Cox																					
Perform aerial construction	Cox Project Planner	Cox																					
Perform underground construction	Cox Project Planner	Cox																					
Activate-Test the network	Cox Project Planner	Cox																					
Release the addresses for service	Cox Project Planner	Cox																					

TUNSTALL ROAD - Priority 12

Network Miles = 3.9

Task	Responsible Person	Entity	Jul, 2022	Aug, 2022	Sep, 2022
Create project account	Cox Planner & Leader	Сох			
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox			
Secure private property easements	Cox Project Planner	Cox-Homeowners			
Dominion Power pole application process	Cox Project Planner	Cox & Dominion			
Prepare field construction drawings	Cox Project Planner	Cox			
Secure County permits	Cox Project Planner	Cox & NK County			
Order project material	Cox Project Planner	Сох			
Install and configure MTC equipment	Cox Critical Facility Engineer	Cox			
Perform aerial construction	Cox Project Planner	Сох			
Perform underground construction	Cox Project Planner	Сох			
Activate-Test the network	Cox Project Planner	Cox			
Release the addresses for service	Cox Project Planner	Cox			

Oct, 2022	Nov,2022	Dec, 2022	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	Sep, 2023

Oct, 2023	Nov, 2023	Dec, 2023	Jan, 2024	Feb, 2024	Mar, 2024	Apr, 2024	May, 2024

COUNTY OF NEW KENT, VIRGINIA AND COX COMMUNICATIONS HAMPTON ROADS, LLC MEMORANDUM OF AGREEMENT FOR

VIRGINIA TELECOMMUNICATIONS INITIATIVE (VATI) GRANT PARTNERSHIP

THIS MEMORANDUM OF AGREEMENT (this "Agreement") is made this	day
of, 2022, by and between the County of New Kent, Virginia, a municipal	
corporation that is a political subdivision of the Commonwealth of Virginia (hereinafter	
"County") and Cox Communications Hampton Roads, LLC, a Virginia Limited Liability	
Company (hereinafter "Cox").	

WHEREAS, The goal of this Memorandum of Agreement is to set forth the undertakings of the parties as it relates to partnering on the submission of a Virginia Telecommunications Initiative (VATI) Grant with the goal of obtaining funds to support the extension of existing Cox network to reach unserved residents of New Kent, Virginia.

NOW THEREFORE, for and in consideration of the mutual promises, covenants, and warranties, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, hereby agree as follows:

REPRESENTATIONS, WARRANTIES AND COVENANTS OF THE COUNTY

In addition to the covenants in other sections of this Agreement, the COUNTY represents, warrants and covenants as follows:

Organization, Authorization and Validity. The County of New Kent, Virginia, a municipal corporation that is a political subdivision of the Commonwealth of Virginia validly existing under the laws of the Commonwealth and has duly authorized, executed and delivered this Agreement. The Agreement is a valid, legal and binding agreement.

Authority. The COUNTY has all requisite authority to execute and deliver and perform its obligations under this Agreement and is not a party to any indenture, contract or other agreement or arrangement, the performance of which by the COUNTY would prevent or materially and adversely affect the COUNTY's ability to perform the terms of this Agreement.

The COUNTY will contribute the cost of [TO BE DETERMINED] for the project. The COUNTY will act as the project manager in relation to the DHCD VATI Grant process.

REPRESENTATIONS, WARRANTIES AND COVENANTS OF COX

In addition to the covenants in other sections of this Agreement, Cox represents, warrants and covenants for itself as follows:

Organization, Authorization and Validity. Cox is a duly organized Virginia Limited Liability Company validly existing under the laws of the Commonwealth and has duly authorized, executed and delivered this Agreement. The Agreement is a valid, legal and binding agreement.

Authority. The Cox has all requisite authority to execute and deliver and perform its obligations under this Agreement and is not a party to any indenture, contract or other agreement or arrangement, the performance of which by it would prevent or materially and adversely affect its individual performance under this Agreement.

Approval to be listed as a co-applicant for the 2023 VATI Grant. Application support providing the following to New Kent by [DATE]:

Proposed network maps

Details to complete the derivation of costs and budget worksheets

Project management plan including scope of work and timelines

Information on service speeds and associated rates

The two most recent 477 FCC filing summary documents

Marketing tactics information

Other items upon request, as able, based on the ability of Cox to do so keeping in mind customer privacy and company interests

Dedicated company resources to gather the aforementioned information.

Funding to support a portion of the overall budget to help meet the 20% minimum contribution requirement from an ISP, locality or the combination of the two.

Confirmation that all projects included in this proposal can be and will be completed within the 12-18 month timeframe as required by the VATI 2023 guidelines.

MUTUAL REPRESENTATIONS, WARRANTIES AND COVENANTS OF THE PARTIES

In addition to the covenants in other sections of this Agreement, the parties represents, warrants and covenants as follows:

Both parties understand the deadline for submission is August 25, 2022 by 11:59 p.m. through the online CAMS process. The County of New Kent, as the Applicant, agrees to transfer all data to the online application prior to the deadline.

Term of Agreement. (a) The term of this Agreement shall be for two (2) years, with three (3) one (1) year renewal options upon the written agreement of the parties.

Termination. The COUNTY may terminate the contract for cause or for convenience after giving thirty (30) days' notice in writing to Cox. The written notice shall state whether the termination is for convenience or cause. The notice shall be delivered by a commercial courier service or mailed certified with return receipt requested to the address listed herein.

Voluntary Termination. The parties may additionally voluntarily terminate the contract giving sixty (60) days' notice in writing to the other party. The notice shall be delivered by a commercial courier service or mailed certified with return receipt requested to the address listed herein.

Compliance With Applicable Law. Cox shall at all times during the term of this Agreement, including any renewal period, comply with all applicable federal, state, and local laws, Agreements, and regulations. Expressly reserved to the COUNTY is the right to adopt, in addition to the provisions of this Agreement and existing laws, such additional Agreements and regulations as are necessary for the lawful exercise of its police power for the benefit and safety of the public.

Payment of Fees. The COUNTY shall pay all amounts (fees, costs, expenses, compensation, and taxes) allowed by the New Kent County Code, New Kent Zoning Agreement and the Code of Virginia, 1950.

Liability of COUNTY and Indemnification. The COUNTY, its officials, employees, agents, and attorneys, shall not be responsible for any liability of the Cox, any affiliated person or any other person, arising out of or in connection with the installation, maintenance, upgrade, repair or removal of facilities.

The COUNTY and its officials, employees, agents, and attorneys shall have no liability to the Cox, any affiliated Person or any other Person for any special, incidental, consequential or

other damages as a result of the exercise of any right of the COUNTY pursuant to this Agreement or applicable law, including, without limitation, the rights of the COUNTY to approve or disapprove the grant, termination, amendment, renewal or transfer of the Franchise, or to otherwise modify all of any part of this Agreement or the Franchise.

To the extent permitted by law, Cox agrees to indemnify, defend and hold harmless the COUNTY, its officers, employees and agents from and against all claims, demands, losses, damages, liabilities, fines, and penalties, and all costs and expenses incurred in connection therewith, including, without limitation, reasonable attorney's fees and costs of defense (collectively, the losses), arising out of any breach by Cox of the terms and conditions of this Agreement, except to the extent proximately caused by the gross negligence or willful misconduct of the COUNTY, its officers, employees and agents. In addition, to the extent permitted by law, Cox shall protect, indemnify, and hold harmless the COUNTY, its officers, agents, and employees, from any and all demands for fees, claims, suits, actions, causes of action, or judgments based on the alleged infringement or violation of any patent, invention, article, arrangement, or other apparatus that may be used in the performance of any work or activity arising out of the use of any fiber optic cabling facilities except to the extent proximately caused by the gross negligence or willful misconduct of the COUNTY, its officers, employees or agents.

General Provisions.

- (a) *Authority*. Cox warrants and represents that it has obtained all necessary and appropriate authority and approval from all applicable federal and state agencies or authorities, and upon request by the COUNTY will provide evidence of such authority.
- (b) Other remedies. Nothing in this Agreement shall be construed as waiving or limiting any rights or remedies that the COUNTY or Cox may have, at law or in equity, for enforcement of this Agreement.
- (c) Severability. If any section, subsection, sentence, clause, phrase, or other portion of this Agreement, or its application to any person, is, for any reason, declared invalid, in whole or in part by any court or agency of competent jurisdiction, said decision shall not affect the validity of the remaining portions hereof.
- (d) Nonenforcement. Neither party shall be excused from complying with any of the provisions of this Agreement by any failure of the other party, upon any one or more occasions, to insist upon strict performance of this Agreement or to seek the other party's compliance with any one or more of such terms or conditions of this Agreement.
- (e) Conflicts of law. If there is a conflict between the provisions of this Agreement and any law, whether federal, state, or COUNTY, including all future laws and Agreements, the law and conflicting Agreement provision will, to the extent reasonably possible, be construed so as to be consistent with each other and if such construction is not reasonably possible, the conflicting provision of this Agreement shall be deemed superseded by such law and have no effect, notwithstanding the contract clause of the United Stated Constitution.
- (f) Change of law. Notwithstanding anything in this Agreement, if any federal, state, or local laws or regulations (including, but not limited to, those issued by the Federal Communications Commission or its successor agency) and any binding judicial interpretations thereof (collectively, "Laws") that govern any aspect of the rights or obligations of the parties under this Agreement shall change after the Effective Date and such change (a) declares this Agreement invalid, in whole or in part, or (b) requires the Cox either to (i) perform any act that is inconsistent with any provision of this Agreement or (ii) cease performing any act required by

any provision of this Agreement, including any obligations with respect to compensation or other financial obligations pursuant to this Agreement, or (c) alters the COUNTY's jurisdiction or rights related to this Franchise or similar franchises, then either the COUNTY or the Cox shall promptly notify the other of such fact.

Upon receipt of such notification, the parties, acting in good faith, shall determine whether such declaration or requirement has a material and adverse effect on this Agreement. If the parties, acting in good faith, determine that such declaration or requirement does not have a material and adverse effect on this Agreement, then the Cox shall comply with such declaration or requirement. If the parties, acting in good faith, determine that such declaration or requirement does have such an effect or that compliance with such declaration or requirement by the Cox would materially frustrate or impede the ability of the Cox, to carry out its obligations pursuant to, and the purposes of, this Agreement, then the Cox and the COUNTY may enter into good faith negotiations to amend this Agreement. Such materially frustration or impediment of the ability of the Cox shall not include the potential increase in cost or expense to the Cox, nor the choice of location, placement or other requirements of fiber optic cabling facilities. If the parties fail to produce an Agreement which is reasonably acceptable to both the COUNTY and the Cox, then the COUNTY or Cox may accelerate the expiration of the Term so that the Term shall expire on a date determined by the COUNTY and Cox not less than twelve (12) months after such determination.

(g) Controlling law and venue. By virtue of entering into this Agreement, Cox agrees and submits itself to the New Kent Circuit Court in the County of New Kent, Virginia or in the United States District Court for the Eastern District of Virginia, Norfolk Division, and further agrees that this Agreement is controlled by the laws of the Commonwealth of Virginia or any applicable federal laws and that all claims, disputes and other matters shall be decided only by such court according to the laws of the Commonwealth of Virginia or any applicable federal laws.

(h) Captions. The section captions and headings in this Agreement are for convenience and reference purposes only and shall not affect in any way the meaning or interpretation of this Agreement.

(i)Nondiscrimination. During the performance of this Agreement, Cox agrees that it will not discriminate against any employee or applicant for employment on the basis of race, religion, color, sex, handicap or national origin. Cox agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. Cox, in all solicitations or advertisements for employees placed by or on behalf of Cox, will state that Cox is an equal opportunity employer. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements herein.

(j) Entire Agreement. This Agreement, including all Appendices, embodies the entire understanding and Agreement of the COUNTY and the Cox with respect to the subject matter hereof and merges and supersedes all prior representations, agreements and understandings, whether oral or written, between the COUNTY and Cox with respect to the subject matter hereof, including, without limitation, all prior drafts of this Agreement and any Appendix to this Agreement and any and all written or oral statements or representations by any official, employee, agent, attorney, consultant or independent contractor of the COUNTY or the Cox.

(k) Delays and Failures Beyond Control of Cox. Notwithstanding any other provision of this Agreement, the Cox shall not be liable for delay in performance of, or failure to perform, in whole or in part, its obligations pursuant to this Agreement due to strike, war or act of war

(whether an actual declaration of war is made or not), insurrection, riot, act of public enemy, fire, flood or other act of God, or sabotage, where the Cox has exercised all due care in the prevention thereof, to the extent that such causes or other events are beyond the control of the Cox and such delay in performance or failure to perform affects only part of the Cox's capacity to perform, the Cox shall perform to the maximum extent it is able to do so and shall take all steps within its power to correct such cause(s).

The Cox agrees that in correcting such cause(s), it shall take all reasonable steps to do so in as expeditious a manner as possible. The Cox shall notify the COUNTY in writing of the occurrence of an event covered by this Section within five (5) business days or a reasonable time period under the circumstances of the date upon which the Cox learns of its occurrence.

(1)Notices.

(1) Notices given pursuant to this Agreement shall be in writing and addressed as follows:

To the County:

[CONTACT]
[ADDRESS]

With a courtesy copy to:

[CONTACT] [ADDRESS]

To COX COMMUNICATIONS HAMPTON ROADS, LLC:

To Cox: Senior Manager, Government and Public Affairs

Attn: Erin Rice

1341 Crossways Blvd. Chesapeake, VA 23320

With an optional courtesy copy to:

Richard Strong 6205-B Peachtree Dunwoody Road NE #16-112 Atlanta, GA 30328

- (2)Either party may change the address at which it will receive notices by providing written notice of the change to the other party.
- (m)*No Agency*. The Cox shall conduct the work to be performed pursuant to this Agreement as an independent contractor and not as an agent of the COUNTY.
- (n) *Survival*. All representations and warranties contained in this Agreement shall survive the Term. The Cox acknowledges that certain of the obligations to be performed under this Agreement are to be performed after the Franchise terminates or expires.
- (o) Delegation of COUNTY Rights. The COUNTY reserves the right to delegate and redelegate, from time to time, any of its rights or obligations under this Agreement to any body, organization or official. Upon such delegation or re-delegation, references to "COUNTY" in this Agreement shall refer to the body, organization or official to whom such delegation or redelegation has been made.

Upon receipt of such notice by the Cox, the Cox shall be bound by all terms and conditions of the delegation not in conflict with this Agreement. Any such delegation, revocation or redelegation, no matter how often made, shall not be deemed an amendment to this Agreement or require any consent of the Cox.

- (p)Modifications. Except as otherwise provided in this Agreement, (including any Appendix to this Agreement), or applicable law, no provision of this Agreement (nor any Appendix to this Agreement), shall be amended or otherwise modified, in whole or in part, except by an instrument, in writing, duly executed by the COUNTY and the Cox, which amendment shall be authorized on behalf of the COUNTY through the adoption of an appropriate Agreement, resolution or order by the COUNTY, as required by applicable law.
- (q) Reservation of Rights. The COUNTY reserves the right to adopt or issue such lawful rules, regulations, orders, or other directives governing the Cox's use of the public streets as it shall find necessary or appropriate in the exercise of its police power, and such other orders as the COUNTY shall find necessary or appropriate pursuant to and in furtherance of the purposes of this Agreement, and the Cox expressly agrees to comply with all such lawful rules, regulations, orders, or other directives. If any such exercise of right materially alters any of the terms or conditions of this Agreement, the parties may, acting in good faith, negotiate such change. No rule, regulation, order or other directive issued pursuant to this Section shall constitute an amendment to this Agreement.
- (r) *Reports*. At the reasonable request of the COUNTY, the Cox shall promptly submit to the COUNTY such information, as maintained in the ordinary course of business, as the COUNTY may request and as allowed by federal and state law regarding the Cox's placement and location of equipment in the public streets and payments and collections made by Cox pursuant to this Agreement.
- (s) Books and Records, Right of Inspection. Throughout the Term, the Cox shall maintain in the COUNTY, or make available at Cox's location in the COUNTY or as mutually agreed upon by the COUNTY and Cox within fifteen (15) business days after receipt of written request, or within the time that is reasonable under the circumstances though not to exceed thirty (30) days, complete and accurate books of account, documents and records, or copies thereof, of the business, ownership, and operations of the Cox with respect to Cox's installation, construction, maintenance, upgrade, repair, relocation and removing of the facilities in the Public streets that may be required under this Agreement, including without limitation, all records, as maintained in the ordinary course of business, adequate to enable the Cox to demonstrate, at all times throughout the Term that it is, and has been, in compliance with each term and condition of this Agreement. The COUNTY and its designated representatives shall have the right to inspect, examine and audit, during normal business hours and upon sixty (60) days' notice to the Cox, all such documents, records and other information of the Cox required to be maintained.
- (t) Treatment of Proprietary Information. Access by the COUNTY to the documents, records or other information covered by this Agreement shall not be denied by the Cox on grounds that such documents, records or information are alleged by the Cox to contain proprietary information, provided that this requirement shall not be deemed to constitute a waiver of the Cox's right to assert that the proprietary information contained in such documents, records or other information, should not be disclosed and to withhold such information upon the agreement of the COUNTY. In order to determine the validity of such assertion and withholding by the Cox, the COUNTY agrees to review the alleged proprietary information at the Cox's premises, subject to the terms as reasonably determined by the parties, and, to limit access to the alleged proprietary information to those individuals who require the information in the exercise of the COUNTY's rights under this Agreement, as reasonably determined by the parties. If the COUNTY Attorney concurs with the Cox's assertion regarding the proprietary nature of such

information, the COUNTY will not disclose such information to any Person and will not remove from the Cox's premises the proprietary portion of any document or other tangible thing that contains such proprietary information. If the COUNTY Attorney does not concur with such assertion, then the Cox shall promptly provide such documents, including the alleged proprietary portion thereof, to the COUNTY, provided that the Cox shall not be required to provide the proprietary portion thereof if it promptly notifies the COUNTY of its intentions to challenge the COUNTY Attorney's decision or during the pendency of any court challenge to such provision. The labeling of documents, records or other information as proprietary shall be the sole responsibility of the Cox.

COUNTY OF NEW KENT, VIRGINIA	
County Administrator	
APPROVED AS TO FORM:	
County Attorney	
The undersigned hereby agrees to comply w above Memorandum of Agreement.	ith all the terms, requirements and conditions of the
COX COMMUNICATIONS HAMPTON R	OADS, LLC
By:	
Name:	
Its:	
Date:	
State of COUNTY/County of, T	TO WIT;
The foregoing instrument was acknowledged	d before me this day of, 2020, on Roads, LLC. He/she is personally known to me or
	Notary Public
My commission expires	My registration number:

Attachment 9 - Funding Sources Table.xlsx

11,619,917.98

100

ContributorAmountPercentage of Project CostCox Communications6,100,456.9452.5Virginia Telecommunications5,519,461.0447.5

Total



August 23, 2022

Rodney Hathaway County Administrator 12007 Courthouse Circle New Kent, VA 23124

Dear Mr. Hathaway,

We are pleased to again partner with the County of New Kent to apply for grant funding to extend broadband service to the unserved residents in the County.

The intent of this letter is to confirm our commitment to matching funds for this project and to provide assurance of our financial ability to do so.

Cox Communications is the largest private telecom company in America, proudly serving 6.5 million homes and businesses across 18 states. Cox Communications is the largest division of Cox Enterprises, a family-owned, global company founded in 1898 by Governor James M. Cox, with 50,000 employees and \$20 billion in annual revenue.

Cox will be providing all the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project. The value of the Cox contribution that is not reimbursed by VATI is \$6,100,456.94 (52.5% of the total project cost). Cox is committed to provide this amount of match funding.

Please accept this letter in lieu of a financial statement documenting current assets due to our position as a privately-held company.

Sincerely,

Frin B. Rice

Erin Rice

Senior Manager, Public Affairs

Attachment 12 - Derivation of Cost (Total VATI 2023).xlsx

Product	Total	VATI	Сож
Unserved Clusters			
Construct approx. 411,967' of new UG fiber optical network to include labor- material and traffic control	\$9,854,646	\$ 4 ,680,957	\$5,173,689
Construct and/or refurbish approx. 617,949' of Aerial fiber optical network to include labor-material and traffic control	\$1,424,902	\$676,828	\$748,074
Perform design & permitting.	\$183,357	\$87,095	\$96,262
Network optical, electronic and powering equipment.	\$157,013	\$7 4 ,581	\$82,432
TOTALS	\$11,619,918	\$5,519,461	\$6,100,457

Source of
Estimate
Cox
6/30/2022
0,30,2022
Cox
COA
6/30/2022
Cox
6/30/2022
Сож
6/30/2022



August 23, 2022

Rodney Hathaway County Administrator 12007 Courthouse Circle New Kent, VA 23124

Dear Mr. Hathaway,

Question 17 of the VATI grant application indicates for proposed expenses to be substantiated by clear cost estimates and for Attachment 13 to include vendor quotes or documented cost estimates to support the proposed budget for the chosen project area.

As a nationwide company, Cox uses internal employees and corporate contracted resources to complete and perform the proposed work as outlined in this grant application. Cox is able to leverage its scale when it comes to purchasing equipment and establishing reasonable contract rates for additional labor as needed. The costs are fixed and not varied based on geographic location, project size, source of funding, or any other factors. Therefore, we have the benefit of not having to request quotes for each individual project and are able to build them into the cost proposal for our application. Due to the competitive nature, contracted rates are considered proprietary.

It is our hope that this letter will be sufficient in demonstrating to the review board that our company has done its due diligence to negotiate rates that reflect a fair and responsible use of resources, both for the planning and completion of the last mile projects that are included in our application.

Please accept this letter as a substitute for vendor quotes or cost estimates requested in question 17 of the 2023 VATI Application.

Sincerely,

Frin B. Rice

Erin Rice

Senior Manager, Public Affairs

Attachment 14 – Letter of Support



Government and Public Affairs 1341 Crossways Blvd. Chesapeake, VA 23320

August 23, 2022

Rodney Hathaway County Administrator 12007 Courthouse Circle New Kent, VA 23124

Dear Mr. Hathaway,

Thank you for the opportunity to work with you to submit a VATI grant application this year in support of our joint efforts to bridge the digital divide in New Kent County. Cox is a committed partner to ensure that every home and business in the County will have access to ultrafast, reliable, symmetrical internet service. This partnership is a great example of the public and private sectors joining forces to remove adoption barriers and empower communities to participate fully in today's digital economy.

Cox has been providing video and telecommunications service in the Commonwealth for more than 40 years and we have continually worked to enhance and expand our network to meet the needs of our customers. We employ more than 1,800 employees, several of whom are part of an experienced and dedicated team of designers, engineers, and construction planners who work on expansion projects daily. Over the past decade, Cox has invested \$2 billion dollars in its network in Virginia bringing technology upgrades and deploying fiber deeper into our communities. This work will bring gigabit service to all Cox residential customers. Additionally, we have committed \$10 billion more nationwide over the next five years to continue the work that needs to be done to meet the needs of our customers, which we anticipate will be 10 gigabits in the very near future. These investments and services have significant impact on economic development by increasing opportunities for residents to engage in virtual learning, have access to telehealth options, telework, and allowing more home-based businesses to thrive.

With the demand for broadband connectivity as high as it has ever been, partnering to reach the unserved is of the utmost importance. It is truly an exciting time, and we appreciate the County trusting Cox to deliver the connectivity its residents desire and deserve.

Sincerely,

Trin B. Rice

Erin Rice

Senior Manager, Public Affairs



August 25, 2022

Tamarah Holmes, Ph.D Director, Office of Broadband Virginia Department of Housing & Community Development 600 East Main Street, Suite 300 Richmond, VA 23219

RE: Letter of Support for 2022 VATI Grant for New Kent County, VA

Dear Dr. Holmes:

New Kent County, served by Rappahannock Community College, is applying for an VATI grant to provide broadband services to its resident citizens for telemedicine, distance education, and support of local small business.

Nearly 100% of RCC courses require internet for students to fully participate in a course at the College. Over 30% of our courses are completely online. Approximately 19% of students reported that they had no internet access or only dial-up access to the internet at home.

Broadband access has become like electricity – one of the fundamental needs in order to prosper. RCC strongly supports the efforts of New Kent County and its request for grant funding. I am happy to provide additional information if needed and may be contacted at skennedy@rappahannock.edu.

Sincerely,

Shannon L. Kennedy, Ed.D.

nemont Keny

President

CHICKAHOMINY INDIAN TRIBE - EASTERN DIVISION



2895 Mt. Pleasant Rd. Providence Forge, VA 23140 804-966-7815 www.cied.org

August 19, 2022

Dr. Tamarah Holmes Director, Office of Broadband Virginia Department of Housing & Community Development **VATI Program** 600 East Main Street, Suite 300 Richmond, Virginia 23219

Letter of Support for 2023 VATI Grant for New Kent, VA

Dear Dr. Holmes:

We are writing in support of the New Kent County joint VATI grant program application with Cox Communications, Inc. for building a universal broadband network in New Kent County, Virginia.

The citizens of New Kent County have long suffered with little to no internet service in many of our rural areas. This especially came to light during the COVID-19 pandemic when students were trying to continue their classwork virtually rather than be in the classroom.

The Chickahominy Indian Tribe Eastern Division Citizens and Youth have struggled with virtual programs necessary to be successful in school, work, and other areas, due to the limited broadband service options and availability to remote areas.

We recognize the importance of broadband to citizens in our County. Such improvements will increase educational opportunities and economic growth in the area. Their proposed investment in broadband infrastructure utilizing a VATI Grant would bring our community into the 21st century. The Citizens of New Kent County in the covered region will have access to broadband equal to citizens in larger cities and more populated areas.

Please consider their application and know we will stand in support of their efforts.

Sincerely,

Penny Wynn

Tribal Administrator

(804) 966-7815

Ext. 1001

Theresa Peterson Chairperson of the New Kent County Strategic Planning Steering Committee

August 22, 2022

Dr. Tamarah Holmes
Director, Office of Broadband
Virginia Department of Housing & Community Development
VATI Program
600 East Main Street, Suite 300
Richmond, Virginia 23219

Letter of Support for 2023 VATI Grant for New Kent County, Virginia

Dear Dr. Holmes:

We are writing in support of New Kent County VATI application and their joint grant application with Cox Communications, Inc. for building improved internet in New Kent County, Virginia.

The citizens of New Kent County have long suffered with little to no internet service in many of our rural areas. This especially came to light during the recent COVID-19 pandemic when students were trying to continue their classwork virtually rather than be in a classroom. Parents had to drive their children to various places in New Kent County so their children could use available WiFi to complete their assignments.

As Chairperson of the New Kent County Strategic Planning Steering Committee I personally had difficulty holding meetings via Zoom during the pandemic due to my lack of reliable internet service. Other household in New Kent have no access to internet at their homes simply because it is not available without substantial costs per household to connect if they can find a carrier to provide them service. Broadband is not a luxury; it is a much needed service for both business and private households.

We recognize the importance of broadband to citizens in our County. Such improvements will increase educational opportunities and economic growth in the area. Their proposed investment in broadband infrastructure utilizing a VATI Grant would bring our community into the 21st century. The Citizens of New Kent County in the covered region will have access to broadband equal to citizens in larger cities and more populated areas.

Please consider their application and know we will stand in support of their efforts.

Sincerely,

Theresa Peterson Chairperson of the New Kent County Strategic Planning Steering Committee MARK K. FLYNN 4101 Rose Cottage Road Quinton, VA 23141 804-400-1321 m markkflynn@gmail.com

24 August 2022

Dr. Tamarah Holmes
Director, Office of Broadband
Virginia Department of Housing & Community Development
VATI Program
600 East Main Street, Suite 300
Richmond, Virginia 23219

Letter of Support for 2023 VATI Grant for New Kent County, Virginia

Dear Dr. Holmes:

I write to plead for support of New Kent County's VATI application and its joint grant application with Cox Communications, Inc. for building improved internet in New Kent County, Virginia.

In my former role with the Virginia Municipal League, I lobbied many years for the opportunity for underserved local governments to have the ability to deploy broadband services to their citizens, when the commercial internet providers found it unprofitable to provide services to rural areas. As a result, I am keenly aware of the need for broadband by rural locality citizens and the fact that commercial providers will not deploy the services to citizens in need when they consider it unprofitable.

The citizens of New Kent County have long suffered with little to no internet service in many rural areas. This especially came to light during the COVID-19 pandemic when students were trying to continue their classwork virtually rather than in a classroom.

My wife and I both have one-person businesses. I was in the private practice of law and was lobbying for Virginia's local governments. My wife lobbies for public sector social services organizations. We both found it impossible to carry on our businesses in our New Kent home, due to being in an unserved part of the county. Regularly, we would need to travel to offices in Richmond to carry out our businesses. As a result, we could not register with the county for business licenses, which lost the county tax revenues.

Further, my wife wears a heart monitor that communicates with VCU Health Systems on an ongoing basis. When the severely limited DSL fails, which it does regularly, the monitor issues a warning. This lack of reliable tele-health service is a real problem.

As this letter shows, I know the importance of broadband to citizens in the County. Such improvements will increase educational opportunities and economic growth in the area. Their proposed investment in broadband infrastructure utilizing a VATI Grant would

bring our community into the 21st century. The Citizens of New Kent County in the covered region will have access to broadband equal to citizens in larger cities and more populated areas.

Please consider their application and know I stand in support of their efforts.

Sincerely,

Mark K. Flynn

August 22, 2022

Dr. Tamarah Holmes
Director, Office of Broadband
Virginia Department of Housing & Community Development
VATI Program
600 East Main Street, Suite 300
Richmond, Virginia 23219

Letter of Support for 2023 VATI Grant for New Kent, VA

Dear Dr. Holmes:

We are writing in support of the New Kent County VATI application and their joint grant application with Cox Communications, Inc. towards bringing a broadband infrastructure that supports high-speed internet in unserved areas in New Kent County, Virginia.

For many years (since at least 2015), New Kent County has been actively seeking a broadband solution for it's unserved/underserved, primarily rural, areas of the county. County broadband committee(s) efforts to bring broadband to these areas have proved unsuccessful due to a lack of interest by internet service providers or by an inability to deliver on their promises.

The county has examined Cox Communications and has determined that it has the experience, ability, and commitment to now bring high-speed broadband to these areas of the county.

Please give strong consideration to this application knowing that an VATI Grant will offer rural New Kent citizens like ourselves the ability to gain valuable high-speed access to the internet resources that are essential in today's world.

Sincerely,

Ron & Jo Ann Durrer New Kent, VA

Attachment 15 - Two Most Recent Form 477 Filings

FRN:

0001834696

Data as of:

Dec 31, 2021

Operations:

Non-ILEC

Submission Status:

Revised - Submitted

Last Updated:

Mar 15, 2022 02:42 PM

Filer Identification

Section	Field	Response
Filer Information	Company Name	Cox Communications
	Holding Company Name	Cox Communications, Inc.
	Filing Type	Non-ILEC
	SAC ID	279011,439003,549017
	499 ID	827138
Data Contact Information	Data Contact Name	Paul Cain
	Data Contact Phone Number	(404) 269-8139
	Data Contact E-mail	paul.cain@cox.com
Emergency Operations Contact Information	Emergency Operations Name	Mark Peay
	Emergency Operations Phone Number	(404) 227-6704
	Emergency Operations E-mail	mark.peay@cox.com
Certifying Official Contact Information	Certifying Official Name	Curt Stamp
	Certifying Official Phone Number	(404) 269-3218

Section	Field	Response
	Certifying Official E-mail	curt.stamp@cox.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Fixed_Broadband_Deployment_FCC_3_final_12312021.txt	Mar 15, 2022 02:39 PM	303,963
Fixed Broadband Deployment	Fixed_Broadband_Deployment_FCC_sup_final_12312021.txt	Mar 15, 2022 02:39 PM	51,623
Fixed Broadband Subscription	Fixed_Broadband_Subscription_FCC_1_final_12312021.txt	Mar 15, 2022 02:39 PM	119,644
Fixed Voice Subscription	Voice_Telephone_Subscription_Detail_12312021.txt	Mar 15, 2022 02:39 PM	6,950
Fixed Broadband Deployment			

Timed Broadound Beprojinent

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Arizona	Cox Communications	Cable Modem – DOCSIS 3.0	1,831
		Cable Modem – DOCSIS 3.1	61,431
		Optical Carrier/Fiber to the End User	7,706
Arkansas	Cox Communications	Cable Modem – DOCSIS 3.1	13,850
		Optical Carrier/Fiber to the End User	528
California	Cox Communications	Cable Modem – DOCSIS 3.0	6
		Cable Modem – DOCSIS 3.1	28,406
		Optical Carrier/Fiber to the End User	1,988
Connecticut	Cox Communications	Cable Modem – DOCSIS 3.1	5,828
		Optical Carrier/Fiber to the End User	98
District of Columbia	Cox Communications	Cable Modem – DOCSIS 3.1	5
Florida	Cox Communications	Cable Modem – DOCSIS 3.0	6
		Cable Modem – DOCSIS 3.1	15,923
		Optical Carrier/Fiber to the End User	483

State	DBA Name	Technology	Blocks
Georgia	Cox Communications	Cable Modem – DOCSIS 3.0	12
		Cable Modem – DOCSIS 3.1	5,932
		Optical Carrier/Fiber to the End User	237
Idaho	Cox Communications	Cable Modem – DOCSIS 3.1	786
		Optical Carrier/Fiber to the End User	8
Iowa	Cox Communications	Cable Modem – DOCSIS 3.1	1,598
		Optical Carrier/Fiber to the End User	51
Kansas	Cox Communications	Cable Modem – DOCSIS 3.0	6
		Cable Modem – DOCSIS 3.1	29,858
		Optical Carrier/Fiber to the End User	517
Louisiana	Cox Communications	Cable Modem – DOCSIS 3.0	11
		Cable Modem – DOCSIS 3.1	42,722
		Optical Carrier/Fiber to the End User	855
Massachusetts	Cox Communications	Cable Modem – DOCSIS 3.1	112
Missouri	Cox Communications	Cable Modem – DOCSIS 3.1	3
Nebraska	Cox Communications	Cable Modem – DOCSIS 3.0	10
		Cable Modem – DOCSIS 3.1	13,437
		Optical Carrier/Fiber to the End User	1,552
Nevada	Cox Communications	Cable Modem – DOCSIS 3.0	16
		Cable Modem – DOCSIS 3.1	19,566
		Optical Carrier/Fiber to the End User	1,240
North Carolina	Cox Communications	Cable Modem – DOCSIS 3.1	21
Ohio	Cox Communications	Cable Modem – DOCSIS 3.0	1
		Cable Modem – DOCSIS 3.1	2,292
		Optical Carrier/Fiber to the End User	4
Oklahoma	Cox Communications	Cable Modem – DOCSIS 3.0	14
		Cable Modem – DOCSIS 3.1	32,069
		Optical Carrier/Fiber to the End User	4,486

State	DBA Name	Technology	Blocks
Rhode Island	Cox Communications	Cable Modem – DOCSIS 3.0	2
		Cable Modem – DOCSIS 3.1	24,569
		Optical Carrier/Fiber to the End User	82
Virginia	Cox Communications	Cable Modem – DOCSIS 3.0	26
		Cable Modem – DOCSIS 3.1	34,871
		Optical Carrier/Fiber to the End User	531
	·	Γotal	355,586

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End User Type

			Subscriptions		
State	Technology	Census Tracts	Consumer	Business/Govt.	Total
Arizona	Cable Modem	19,630	1,321,739	89,296	1,411,035
	Optical Carrier/Fiber to the End User	6,400	128,676	6,765	135,441
Arkansas	Cable Modem	2,811	136,805	12,134	148,939
	Optical Carrier/Fiber to the End User	707	7,979	680	8,659
California	Cable Modem	12,448	865,904	55,175	921,079
	Optical Carrier/Fiber to the End User	3,082	30,870	6,071	36,941
Connecticut	Cable Modem	1,983	124,714	9,684	134,398
	Optical Carrier/Fiber to the End User	218	1,355	240	1,595
District of Columbia	Optical Carrier/Fiber to the End User	4	0	6	6
Florida	Cable Modem	3,407	252,878	19,766	272,644
	Optical Carrier/Fiber to the End User	803	8,443	1,049	9,492
Georgia	Cable Modem	1,462	82,603	6,920	89,523
	Optical Carrier/Fiber to the End User	352	4,894	343	5,237
Idaho	Cable Modem	117	7,527	751	8,278

			Subscriptions		
State	Technology	Census Tracts	Consumer	Business/Govt.	Total
	Optical Carrier/Fiber to the End User	20	111	15	126
Iowa	Cable Modem	412	19,389	1,244	20,633
	Optical Carrier/Fiber to the End User	71	255	64	319
Kansas	Cable Modem	5,395	275,887	20,464	296,351
	Optical Carrier/Fiber to the End User	962	3,054	1,078	4,132
Louisiana	Cable Modem	9,744	440,579	36,703	477,282
	Optical Carrier/Fiber to the End User	2,137	9,806	3,057	12,863
Massachusetts	Cable Modem	27	1,098	15	1,113
	Optical Carrier/Fiber to the End User	3	0	3	3
Nebraska	Cable Modem	3,470	203,710	14,716	218,426
	Optical Carrier/Fiber to the End User	1,035	14,265	1,049	15,314
Nevada	Cable Modem	8,168	605,213	42,545	647,758
	Optical Carrier/Fiber to the End User	2,292	47,962	2,910	50,872
North Carolina	Cable Modem	20	546	9	555
	Optical Carrier/Fiber to the End User	5	0	5	5
Ohio	Cable Modem	1,216	50,575	2,895	53,470
	Optical Carrier/Fiber to the End User	50	126	56	182
Oklahoma	Cable Modem	9,589	432,052	39,729	471,781
	Optical Carrier/Fiber to the End User	3,197	21,849	4,191	26,040
Rhode Island	Cable Modem	3,939	201,202	17,180	218,382
	Optical Carrier/Fiber to the End User	463	2,099	539	2,638
Virginia	Cable Modem	11,781	563,238	53,281	616,519
	Optical Carrier/Fiber to the End User	2,224	13,250	3,107	16,357
	Total	119,644	5,880,653	453,735	6,334,388

Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
0.256	0.256	0	107	107
0.384	0.384	0	3,467	3,467
0.512	0.512	0	4	4
1.000	0.256	0	6	6
1.000	1.000	0	38	38
1.500	0.384	0	192	192
1.500	0.512	0	2	2
1.500	1.500	0	1,367	1,367
2.000	0.384	0	63	63
2.000	2.000	0	1,999	1,999
3.000	0.512	0	797	797
3.000	3.000	0	80	80
4.000	4.000	0	6	6
5.000	1.000	5	416	421
5.000	2.000	0	457	457
5.000	5.000	0	301	301
6.000	1.000	0	606	606
6.000	2.000	0	36	36
6.000	6.000	0	24	24
7.000	7.000	0	1	1
8.000	2.000	0	5	5
8.000	8.000	0	2	2
9.000	1.000	0	501	501
10.000	2.000	0	38,307	38,307
10.000	3.000	0	33	33
10.000	10.000	0	840	840
15.000	2.000	8,825	0	8,825
15.000	3.000	0	4,306	4,306

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
15.000	5.000	0	288	288
15.000	15.000	0	8	8
20.000	3.000	0	2,459	2,459
20.000	10.000	0	2	2
20.000	20.000	0	1,486	1,486
25.000	3.000	223,485	0	223,485
25.000	4.000	0	1,155	1,155
25.000	5.000	8,259	63,874	72,133
25.000	10.000	0	50	50
25.000	15.000	0	2	2
25.000	25.000	0	12	12
28.000	4.000	0	96	96
30.000	10.000	0	106	106
30.000	30.000	0	765	765
40.000	10.000	0	1	1
40.000	40.000	0	312	312
45.000	45.000	0	7	7
50.000	3.000	1,028,323	0	1,028,323
50.000	5.000	0	6,330	6,330
50.000	10.000	0	105,449	105,449
50.000	15.000	0	121	121
50.000	50.000	0	4,151	4,151
60.000	15.000	0	89	89
60.000	60.000	0	11	11
70.000	70.000	0	6	6
75.000	10.000	0	3	3
75.000	25.000	0	457	457
75.000	75.000	0	8	8

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
80.000	10.000	0	4	4
80.000	20.000	0	12	12
80.000	80.000	0	1	1
90.000	90.000	0	2	2
100.000	10.000	14,380	387	14,767
100.000	20.000	0	116,332	116,332
100.000	30.000	0	52	52
100.000	50.000	0	1	1
100.000	100.000	0	8,303	8,303
140.000	30.000	0	4	4
150.000	10.000	2,494,431	236	2,494,667
150.000	20.000	362	632	994
150.000	40.000	0	6	6
150.000	150.000	0	117	117
155.000	155.000	0	2	2
200.000	10.000	125,039	0	125,039
200.000	20.000	0	38,812	38,812
200.000	200.000	0	3,237	3,237
250.000	250.000	0	77	77
300.000	30.000	193,174	24,480	217,654
300.000	50.000	0	2	2
300.000	75.000	0	10	10
300.000	80.000	0	1	1
300.000	300.000	0	1,894	1,894
350.000	350.000	0	4	4
400.000	400.000	0	359	359
500.000	10.000	907,775	0	907,775
500.000	35.000	0	6,915	6,915

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
500.000	500.000	0	1,897	1,897
600.000	600.000	0	19	19
700.000	700.000	0	14	14
800.000	800.000	0	2	2
900.000	900.000	0	6	6
940.000	940.000	77,045	0	77,045
1,000.000	35.000	799,550	4,998	804,548
1,000.000	1,000.000	0	3,171	3,171
2,000.000	2,000.000	0	191	191
3,000.000	3,000.000	0	53	53
4,000.000	4,000.000	0	23	23
5,000.000	5,000.000	0	92	92
6,000.000	6,000.000	0	6	6
8,000.000	8,000.000	0	5	5
10,000.000	10,000.000	0	139	139
20,000.000	20,000.000	0	12	12
30,000.000	30,000.000	0	1	1
40,000.000	40,000.000	0	5	5
60,000.000	60,000.000	0	1	1
70,000.000	70,000.000	0	1	1
100,000.000	100,000.000	0	6	6
Tot	al	5,880,653	453,735	6,334,388

Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Cable Modem	0.256	0.256	0	102	102
	0.384	0.384	0	3,461	3,461
	1.000	0.256	0	6	6

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	1.500	0.384	0	192	192
	1.500	1.500	0	1,189	1,189
	2.000	0.384	0	63	63
	2.000	2.000	0	1,943	1,943
	3.000	0.512	0	797	797
	3.000	3.000	0	10	10
	5.000	1.000	5	394	399
	5.000	2.000	0	442	442
	5.000	5.000	0	3	3
	6.000	1.000	0	606	606
	6.000	2.000	0	32	32
	9.000	1.000	0	501	501
	10.000	2.000	0	38,172	38,172
	10.000	10.000	0	1	1
	15.000	2.000	8,803	0	8,803
	15.000	3.000	0	4,222	4,222
	15.000	5.000	0	79	79
	20.000	3.000	0	2,459	2,459
	20.000	20.000	0	3	3
	25.000	3.000	218,068	0	218,068
	25.000	4.000	0	1,155	1,155
	25.000	5.000	8,220	63,671	71,891
	25.000	15.000	0	2	2
	28.000	4.000	0	96	96
	30.000	10.000	0	102	102
	50.000	3.000	1,002,719	0	1,002,719
	50.000	5.000	0	6,330	6,330
	50.000	10.000	0	104,935	104,935

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	50.000	15.000	0	9	9
	60.000	15.000	0	89	89
	80.000	10.000	0	4	4
	100.000	10.000	14,277	369	14,646
	100.000	20.000	0	115,757	115,757
	140.000	30.000	0	4	4
	150.000	10.000	2,386,312	212	2,386,524
	150.000	20.000	360	632	992
	200.000	10.000	123,861	0	123,861
	200.000	20.000	0	38,464	38,464
	300.000	30.000	187,372	24,164	211,536
	500.000	10.000	844,358	0	844,358
	500.000	35.000	0	6,863	6,863
	1,000.000	35.000	791,304	4,972	796,276
Optical Carrier/Fiber to the End User	0.256	0.256	0	5	5
	0.384	0.384	0	6	6
	0.512	0.512	0	4	4
	1.000	1.000	0	38	38
	1.500	0.512	0	2	2
	1.500	1.500	0	178	178
	2.000	2.000	0	56	56
	3.000	3.000	0	70	70
	4.000	4.000	0	6	6
	5.000	1.000	0	22	22
	5.000	2.000	0	15	15
	5.000	5.000	0	298	298
	6.000	2.000	0	4	4
	6.000	6.000	0	24	24

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	7.000	7.000	0	1	1
	8.000	2.000	0	5	5
	8.000	8.000	0	2	2
	10.000	2.000	0	135	135
	10.000	3.000	0	33	33
	10.000	10.000	0	839	839
	15.000	2.000	22	0	22
	15.000	3.000	0	84	84
	15.000	5.000	0	209	209
	15.000	15.000	0	8	8
	20.000	10.000	0	2	2
	20.000	20.000	0	1,483	1,483
	25.000	3.000	5,417	0	5,417
	25.000	5.000	39	203	242
	25.000	10.000	0	50	50
	25.000	25.000	0	12	12
	30.000	10.000	0	4	4
	30.000	30.000	0	765	765
	40.000	10.000	0	1	1
	40.000	40.000	0	312	312
	45.000	45.000	0	7	7
	50.000	3.000	25,604	0	25,604
	50.000	10.000	0	514	514
	50.000	15.000	0	112	112
	50.000	50.000	0	4,151	4,151
	60.000	60.000	0	11	11
	70.000	70.000	0	6	6
	75.000	10.000	0	3	3

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	75.000	25.000	0	457	457
	75.000	75.000	0	8	8
	80.000	20.000	0	12	12
	80.000	80.000	0	1	1
	90.000	90.000	0	2	2
	100.000	10.000	103	18	121
	100.000	20.000	0	575	575
	100.000	30.000	0	52	52
	100.000	50.000	0	1	1
	100.000	100.000	0	8,303	8,303
	150.000	10.000	108,119	24	108,143
	150.000	20.000	2	0	2
	150.000	40.000	0	6	6
	150.000	150.000	0	117	117
	155.000	155.000	0	2	2
	200.000	10.000	1,178	0	1,178
	200.000	20.000	0	348	348
	200.000	200.000	0	3,237	3,237
	250.000	250.000	0	77	77
	300.000	30.000	5,802	316	6,118
	300.000	50.000	0	2	2
	300.000	75.000	0	10	10
	300.000	80.000	0	1	1
	300.000	300.000	0	1,894	1,894
	350.000	350.000	0	4	4
	400.000	400.000	0	359	359
	500.000	10.000	63,417	0	63,417
	500.000	35.000	0	52	52

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	500.000	500.000	0	1,897	1,897
	600.000	600.000	0	19	19
	700.000	700.000	0	14	14
	800.000	800.000	0	2	2
	900.000	900.000	0	6	6
	940.000	940.000	77,045	0	77,045
	1,000.000	35.000	8,246	26	8,272
	1,000.000	1,000.000	0	3,171	3,171
	2,000.000	2,000.000	0	191	191
	3,000.000	3,000.000	0	53	53
	4,000.000	4,000.000	0	23	23
	5,000.000	5,000.000	0	92	92
	6,000.000	6,000.000	0	6	6
	8,000.000	8,000.000	0	5	5
	10,000.000	10,000.000	0	139	139
	20,000.000	20,000.000	0	12	12
	30,000.000	30,000.000	0	1	1
	40,000.000	40,000.000	0	5	5
	60,000.000	60,000.000	0	1	1
	70,000.000	70,000.000	0	1	1
	100,000.000	100,000.000	0	6	6
	Total		5,880,653	453,735	6,334,388

Fixed Voice Subscription

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Alabama	0	0	46	0
Arizona	168	0	513,327	297,740
Arkansas	0	0	48,767	20,852
California	1,155	0	451,611	260,957
Colorado	0	0	1,143	0
Connecticut	12	0	71,717	49,574
Florida	0	0	92,285	48,454
Georgia	0	0	33,572	18,453
Idaho	0	0	3,017	1,876
Illinois	0	0	75	0
Indiana	0	0	38	0
Iowa	0	0	12,612	7,238
Kansas	253	0	123,171	56,963
Kentucky	0	0	4	0
Louisiana	23	0	206,701	108,555
Maryland	0	0	156	0
Massachusetts	0	0	130	1
Michigan	0	0	36	0
Mississippi	0	0	3	0
Missouri	0	0	142	0
Nebraska	0	0	114,632	57,814
Nevada	0	0	242,151	143,978
New Hampshire	0	0	11	0
New Mexico	0	0	5	0
New York	0	0	6	0
Ohio	0	0	20,976	14,772
Oklahoma	1,661	0	250,246	112,990
Oregon	0	0	48	0

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Pennsylvania	0	0	55	0
Rhode Island	6	0	138,618	75,485
South Carolina	0	0	4	0
South Dakota	0	0	4	0
Tennessee	0	0	163	0
Texas	0	0	772	0
Utah	0	0	76	0
Virginia	4,185	0	339,927	160,754
Washington	0	0	25	0
West Virginia	0	0	13	0
Total	7,463	0	2,666,285	1,436,456

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Arizona	0	0
California	0	0
Connecticut	0	0
Kansas	0	0
Louisiana	0	0
Oklahoma	0	0
Rhode Island	0	0
Virginia	0	0
Total	0	0

VGE Lines Provided to End Users by State, Bundle and Product Type

		by Bundle			by Produ	ct Type	
				Consume	er	Business/G	ovt.
State	Total	Sold w/ Internet	Sold w/o Internet	& No PIC	& PIC	& No PIC	& PIC
Arizona	168	4	164	0	0	110	58
California	1,155	15	1,140	0	0	892	263
Connecticut	12	0	12	0	0	11	1
Kansas	253	8	245	0	0	175	78
Louisiana	23	4	19	0	0	20	3
Oklahoma	1,661	11	1,650	0	0	1,389	272
Rhode Island	6	1	5	0	0	4	2
Virginia	4,185	17	4,168	0	0	3,694	491
Total	7,463	60	7,403	0	0	6,295	1,168

VGE Lines Provided to End Users by State, Ownership and Last-Mile Medium

		by Ownership by Last-Mile N			by Last-Mile Medium			
State	Total	Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Arizona	168	155	13	0	10	158	0	0
California	1,155	1,042	113	0	51	1,104	0	0
Connecticut	12	12	0	0	0	12	0	0
Kansas	253	241	12	0	0	253	0	0
Louisiana	23	21	2	0	10	13	0	0
Oklahoma	1,661	1,530	131	0	0	1,661	0	0
Rhode Island	6	6	0	0	0	6	0	0
Virginia	4,185	3,980	205	0	364	3,821	0	0
Total	7,463	6,987	476	0	435	7,028	0	0

Fixed Voice Subscription (iVoIP)

State	Total	Consumer	Business/Govt.
Alabama	46	0	46
Arizona	513	0	513
Arkansas	454	0	454
California	7,870	0	7,870
Colorado	1,143	0	1,143
Connecticut	10	0	10
Florida	147	0	147
Georgia	52	0	
Idaho	76	0	76
Illinois	75	0	75
Indiana	38	0	38
Iowa	82	0	82
Kansas	1,258	0	1,258
Kentucky	4	0	4
Louisiana	289	0	289
Maryland	156	0	156
Massachusetts	96	0	
Michigan	36	0	
Mississippi	3	0	
Missouri	142	0	142
Nebraska	592	0	592
Nevada	690	0	690
New Hampshire	11	0	11
New Mexico	5	0	5
New York	6	0	6
Ohio	82	0	82
Oklahoma	510	0	510
Oregon	48	0	48

State	Total	Consumer	Business/Govt.
Pennsylvania	55	0	55
Rhode Island	65	0	65
South Carolina	4	0	4
South Dakota	4	0	4
Tennessee	163	0	163
Texas	772	0	772
Utah	76	0	76
Virginia	1,973	0	1,973
Washington	25	0	25
West Virginia	13	0	13
Total	17,584	0	17,584

All Other VoIP Subscriptions by State, End User Type, Bundle and Last-Mile Medium

	l		l User Type	by Bundle		by Last-Mile Medium			
State	Total	Consumer	Business/Govt.	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Alabama	0	0	0	0	0	0	0	0	0
Arizona	512,814	297,740	215,074	418,751	94,063	15,749	497,065	0	0
Arkansas	48,313	20,852	27,461	38,324	9,989	515	47,798	0	0
California	443,741	260,957	182,784	353,890	89,851	24,720	419,021	0	0
Colorado	0	0	0	0	0	0	0	0	0
Connecticut	71,707	49,574	22,133	61,962	9,745	310	71,397	0	0
Florida	92,138	48,454	43,684	77,769	14,369	1,690	90,448	0	0
Georgia	33,520	18,453	15,067	29,089	4,431	751	32,769	0	0
Idaho	2,941	1,876	1,065	2,581	360	71	2,870	0	0
Illinois	0	0	0	0	0	0	0	0	0
Indiana	0	0	0	0	0	0	0	0	0
Iowa	12,530	7,238	5,292	9,448	3,082	30	12,500	0	0
Kansas	121,913	56,963	64,950	89,741	32,172	788	121,125	0	0

		by End	User Type	by B	undle		by Last	-Mile Medium	
State	Total	Consumer	Business/Govt.	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Kentucky	0	0	0	0	0	0	0	0	0
Louisiana	206,412	108,555	97,857	168,366	38,046	1,496	204,916	0	0
Maryland	0	0	0	0	0	0	0	0	0
Massachusetts	34	1	33	0	34	33	1	0	0
Michigan	0	0	0	0	0	0	0	0	0
Mississippi	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0	0	0
Nebraska	114,040	57,814	56,226	85,812	28,228	2,408	111,632	0	0
Nevada	241,461	143,978	97,483	205,522	35,939	7,148	234,313	0	0
New Hampshire	0	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0	0
New York	0	0	0	0	0	0	0	0	0
Ohio	20,894	14,772	6,122	18,229	2,665	45	20,849	0	0
Oklahoma	249,736	112,990	136,746	186,510	63,226	12,262	237,474	0	0
Oregon	0	0	0	0	0	0	0	0	0
Pennsylvania	0	0	0	0	0	0	0	0	0
Rhode Island	138,553	75,485	63,068	107,165	31,388	425	138,128	0	0
South Carolina	0	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0	0
Virginia	337,954	160,754	177,200	246,119	91,835	4,466	0	333,488	0
Washington	0	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0	0
Total	2,648,701	1,436,456	1,212,245	2,099,278	549,423	72,907	2,242,306	333,488	0

Form 477 Filing Summary

FRN:

0001834696

Data as of:

Jun 30, 2021

Operations:

Non-ILEC

Submission Status:

Original - Submitted

Last Updated:

Aug 20, 2021 12:49 PM

Filer Identification

Section	Field	Response
Filer Information	Company Name	Cox Communications
	Holding Company Name	Cox Communications, Inc.
	Filing Type	Non-ILEC
	SAC ID	279011,439003,549017
	499 ID	827138
Data Contact Information	Data Contact Name	Paul Cain
	Data Contact Phone Number	(404) 269-8139
	Data Contact E-mail	paul.cain@cox.com
Emergency Operations Contact Information	Emergency Operations Name	Mark Peay
	Emergency Operations Phone Number	(404) 227-6704
	Emergency Operations E-mail	mark.peay@cox.com
Certifying Official Contact Information	Certifying Official Name	Curt Stamp
	Certifying Official Phone Number	(404) 269-0983

Section	Field	Response
	Certifying Official E-mail	curt.stamp@cox.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Fixed_Broadband_Deployment_FCC_3_final_06302021.txt	Aug 19, 2021 12:12 PM	316,164
Fixed Broadband Deployment	Fixed_Broadband_Deployment_FCC_sup_final_06302021.txt	Aug 19, 2021 12:17 PM	98,494
Fixed Broadband Subscription	Fixed_Broadband_Subscription_FCC_1_final_06302021_rev.txt	Aug 19, 2021 12:09 PM	109,208
Fixed Voice Subscription	Voice_Telephone_Subscription_Detail_06302021.txt	Aug 2, 2021 06:08 PM	6,251
Fixed Broadband Deployment			

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Arizona	Cox Communications	Cable Modem – DOCSIS 3.0	2,006
		Cable Modem – DOCSIS 3.1	67,791
		Optical Carrier/Fiber to the End User	7,041
Arkansas	Cox Communications	Cable Modem – DOCSIS 3.1	16,262
		Optical Carrier/Fiber to the End User	450
California	Cox Communications	Cable Modem – DOCSIS 3.0	6
		Cable Modem – DOCSIS 3.1	38,582
		Optical Carrier/Fiber to the End User	2,022
Connecticut	Cox Communications	Cable Modem – DOCSIS 3.1	7,485
		Optical Carrier/Fiber to the End User	107
District of Columbia	Cox Communications	Cable Modem – DOCSIS 3.1	5
		Optical Carrier/Fiber to the End User	3
Florida	Cox Communications	Cable Modem – DOCSIS 3.0	5
		Cable Modem – DOCSIS 3.1	17,944

State	DBA Name	Technology	Blocks
		Optical Carrier/Fiber to the End User	520
Georgia	Cox Communications	Cable Modem – DOCSIS 3.0	10
		Cable Modem – DOCSIS 3.1	7,102
		Optical Carrier/Fiber to the End User	201
Idaho	Cox Communications	Cable Modem – DOCSIS 3.1	1,074
		Optical Carrier/Fiber to the End User	8
Iowa	Cox Communications	Cable Modem – DOCSIS 3.1	1,869
		Optical Carrier/Fiber to the End User	74
Kansas	Cox Communications	Cable Modem – DOCSIS 3.0	6
		Cable Modem – DOCSIS 3.1	35,130
		Optical Carrier/Fiber to the End User	894
Louisiana	Cox Communications	Cable Modem – DOCSIS 3.0	9
		Cable Modem – DOCSIS 3.1	51,677
		Optical Carrier/Fiber to the End User	913
Massachusetts	Cox Communications	Cable Modem – DOCSIS 3.1	138
		Optical Carrier/Fiber to the End User	1
Missouri	Cox Communications	Cable Modem – DOCSIS 3.1	17
Nebraska	Cox Communications	Cable Modem – DOCSIS 3.0	10
		Cable Modem – DOCSIS 3.1	15,440
		Optical Carrier/Fiber to the End User	1,321
Nevada	Cox Communications	Cable Modem – DOCSIS 3.0	13
		Cable Modem – DOCSIS 3.1	19,581
		Optical Carrier/Fiber to the End User	812
North Carolina	Cox Communications	Cable Modem – DOCSIS 3.1	33
		Optical Carrier/Fiber to the End User	2
Ohio	Cox Communications	Cable Modem – DOCSIS 3.0	1
		Cable Modem – DOCSIS 3.1	2,320
		Optical Carrier/Fiber to the End User	32

State	DBA Name	Technology	Blocks
Oklahoma	Cox Communications	Cable Modem – DOCSIS 3.0	14
		Cable Modem – DOCSIS 3.1	36,823
		Optical Carrier/Fiber to the End User	5,305
Rhode Island	Cox Communications	Cable Modem – DOCSIS 3.0	2
		Cable Modem – DOCSIS 3.1	23,669
		Optical Carrier/Fiber to the End User	193
Virginia	Cox Communications	Cable Modem – DOCSIS 3.0	26
		Cable Modem – DOCSIS 3.1	49,201
		Optical Carrier/Fiber to the End User	508
	,	Fotal	414,658

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End User Type

			Subscriptions		
State	Technology	Census Tracts	Consumer	Business/Govt.	Total
Arizona	Cable Modem	18,350	1,282,717	88,853	1,371,570
	Optical Carrier/Fiber to the End User	5,634	110,881	5,970	116,851
Arkansas	Cable Modem	2,260	136,332	12,064	148,396
	Optical Carrier/Fiber to the End User	568	6,283	588	6,871
California	Cable Modem	11,121	863,844	54,942	918,786
	Optical Carrier/Fiber to the End User	2,774	28,737	5,819	34,556
Connecticut	Cable Modem	1,899	125,157	9,675	134,832
	Optical Carrier/Fiber to the End User	213	1,310	220	1,530
District of Columbia	Optical Carrier/Fiber to the End User	4	0	6	6
Florida	Cable Modem	3,173	249,325	19,510	268,835
	Optical Carrier/Fiber to the End User	701	7,872	969	8,841

				Subscriptions	
State	Technology	Census Tracts	Consumer	Business/Govt.	Total
Georgia	Cable Modem	1,182	82,085	6,739	88,824
	Optical Carrier/Fiber to the End User	300	4,251	302	4,553
Idaho	Cable Modem	77	7,405	714	8,119
	Optical Carrier/Fiber to the End User	9	0	15	15
Iowa	Cable Modem	414	19,394	1,246	20,640
	Optical Carrier/Fiber to the End User	61	247	56	303
Kansas	Cable Modem	5,032	274,051	20,590	294,641
	Optical Carrier/Fiber to the End User	831	2,702	985	3,687
Louisiana	Cable Modem	8,687	444,296	36,662	480,958
	Optical Carrier/Fiber to the End User	1,922	8,810	2,864	11,674
Massachusetts	Cable Modem	27	1,157	15	1,172
	Optical Carrier/Fiber to the End User	3	0	3	3
Nebraska	Cable Modem	3,347	203,981	14,750	218,731
	Optical Carrier/Fiber to the End User	969	12,441	921	13,362
Nevada	Cable Modem	7,603	605,111	41,665	646,776
	Optical Carrier/Fiber to the End User	1,973	41,824	2,586	44,410
North Carolina	Cable Modem	20	522	10	532
	Optical Carrier/Fiber to the End User	4	0	4	4
Ohio	Cable Modem	1,223	50,605	2,920	53,525
	Optical Carrier/Fiber to the End User	53	125	56	181
Oklahoma	Cable Modem	8,627	432,850	39,848	472,698
	Optical Carrier/Fiber to the End User	2,815	18,831	3,922	22,753
Rhode Island	Cable Modem	3,898	204,100	17,098	221,198
	Optical Carrier/Fiber to the End User	442	1,885	514	2,399
Virginia	Cable Modem	10,968	566,936	53,004	619,940
	Optical Carrier/Fiber to the End User	2,024	12,018	3,002	15,020
	Total	109,208	5,808,085	449,107	6,257,192

Fixed Broadband Subscriptions by Bandwidths and End User Type

Downs	stream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
0.256	0.256		0	126	126
0.384	0.384		0	3,544	3,544
0.512	0.512		0	4	4
1.000	0.256		0	6	6
1.000	1.000		0	40	40
1.500	0.384		0	207	207
1.500	0.512		0	2	2
1.500	1.500		0	547	547
2.000	0.384		0	69	69
2.000	2.000		0	2,151	2,151
3.000	0.512		0	883	883
3.000	3.000		0	92	92
4.000	4.000		0	6	6
5.000	1.000		2	529	531
5.000	2.000		0	500	500
5.000	5.000		0	283	283
6.000	1.000		0	663	663
6.000	2.000		0	33	33
6.000	6.000		0	32	32
7.000	7.000		0	2	32 2
8.000	2.000		0	6	6
8.000	8.000		0	2	2
9.000	1.000		0	590	590
10.000	2.000		0	42,503	42,503
10.000	3.000		0	34	34
10.000	10.000		0	882	882

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
15.000	2.000	10,265	0	10,265
15.000	3.000	0	4,940	4,940
15.000	5.000	0	308	308
15.000	15.000	0	9	9
20.000	3.000	0	3,124	3,124
20.000	10.000	0	1	1
20.000	20.000	0	1,536	1,536
25.000	3.000	255,866	0	255,866
25.000	4.000	0	1,273	1,273
25.000	5.000	9,329	68,621	77,950
25.000	10.000	0	55	55
25.000	15.000	0	2	2
25.000	25.000	0	28	28
28.000	4.000	0	110	110
30.000	10.000	0	117	117
30.000	30.000	0	772	772
40.000	10.000	0	1	1
40.000	40.000	0	307	307
45.000	45.000	0	7	7
50.000	3.000	981,317	0	981,317
50.000	5.000	0	6,908	6,908
50.000	10.000	0	106,215	106,215
50.000	15.000	0	133	133
50.000	50.000	0	4,038	4,038
60.000	15.000	0	95	95
60.000	60.000	0	12	12
70.000	70.000	0	6	
75.000	10.000	0	3	6

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
75.000	25.000	0	489	489
75.000	75.000	0	12	12
80.000	10.000	0	4	4
80.000	20.000	0	15	15
80.000	80.000	0	1	1
90.000	90.000	0	3	3
100.000	10.000	15,819	384	16,203
100.000	20.000	0	110,176	110,176
100.000	30.000	0	58	58
100.000	50.000	0	1	1
100.000	100.000	0	7,768	7,768
140.000	30.000	0	4	4
150.000	10.000	2,561,812	224	2,562,036
150.000	20.000	131	658	789
150.000	40.000	0	6	6
150.000	150.000	0	116	116
155.000	155.000	0	3	3
200.000	10.000	151,322	0	151,322
200.000	20.000	0	35,398	35,398
200.000	200.000	0	2,917	2,917
250.000	250.000	0	63	63
300.000	30.000	264,540	21,920	286,460
300.000	50.000	0	2	2
300.000	75.000	0	11	11
300.000	80.000	0	1	1
300.000	300.000	0	1,625	1,625
350.000	350.000	0	1	1
400.000	400.000	0	326	326

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
500.000	10.000	779,122	0	779,122
500.000	35.000	0	5,822	5,822
500.000	500.000	0	1,617	1,617
600.000	600.000	0	17	17
700.000	700.000	0	19	19
800.000	800.000	0	3	3
900.000	900.000	0	5	5
940.000	940.000	63,516	0	63,516
1,000.000	35.000	715,044	3,989	719,033
1,000.000	1,000.000	0	2,629	2,629
2,000.000	2,000.000	0	161	161
3,000.000	3,000.000	0	49	49
4,000.000	4,000.000	0	25	25
5,000.000	5,000.000	0	74	74
6,000.000	6,000.000	0	5	5
8,000.000	8,000.000	0	8	8
10,000.000	10,000.000	0	124	124
20,000.000	20,000.000	0	4	4
30,000.000	30,000.000	0	1	1
40,000.000	40,000.000	0	5	5
70,000.000	70,000.000	0	1	1
100,000.000	100,000.000	0	6	6
Total	al	5,808,085	449,107	6,257,192

Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Cable Modem	0.256	0.256	0	122	122
	0.384	0.384	0	3,538	3,538

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	1.000	0.256	0	6	6
	1.500	0.384	0	207	207
	1.500	1.500	0	338	338
	2.000	0.384	0	69	69
	2.000	2.000	0	2,087	2,087
	3.000	0.512	0	883	883
	3.000	3.000	0	12	12
	5.000	1.000	2	504	506
	5.000	2.000	0	484	484
	5.000	5.000	0	3	3
	6.000	1.000	0	663	663
	6.000	2.000	0	31	31
	9.000	1.000	0	590	590
	10.000	2.000	0	42,433	42,433
	10.000	10.000	0	1	1
	15.000	2.000	10,246	0	10,246
	15.000	3.000	0	4,848	4,848
	15.000	5.000	0	88	88
	20.000	3.000	0	3,124	3,124
	20.000	20.000	0	3	3
	25.000	3.000	251,270	0	251,270
	25.000	4.000	0	1,273	1,273
	25.000	5.000	9,286	68,440	77,726
	25.000	15.000	0	2	2
	28.000	4.000	0	110	110
	30.000	10.000	0	113	113
	50.000	3.000	958,900	0	958,900
	50.000	5.000	0	6,908	6,908

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	50.000	10.000	0	105,791	105,791
	50.000	15.000	0	9	9
	60.000	15.000	0	95	95
	80.000	10.000	0	4	4
	100.000	10.000	15,711	363	16,074
	100.000	20.000	0	109,721	109,721
	140.000	30.000	0	4	4
	150.000	10.000	2,461,954	202	2,462,156
	150.000	20.000	128	658	786
	200.000	10.000	149,968	0	149,968
	200.000	20.000	0	35,137	35,137
	300.000	30.000	256,949	21,688	278,637
	500.000	10.000	727,868	0	727,868
	500.000	35.000	0	5,783	5,783
	1,000.000	35.000	707,586	3,970	711,556
Optical Carrier/Fiber to the End User	0.256	0.256	0	4	4
	0.384	0.384	0	6	6
	0.512	0.512	0	4	4
	1.000	1.000	0	40	40
	1.500	0.512	0	2	2
	1.500	1.500	0	209	209
	2.000	2.000	0	64	64
	3.000	3.000	0	80	80
	4.000	4.000	0	6	6
	5.000	1.000	0	25	25
	5.000	2.000	0	16	16
	5.000	5.000	0	280	280
	6.000	2.000	0	2	2

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	6.000	6.000	0	32	32
	7.000	7.000	0	2	2
	8.000	2.000	0	6	2 6
	8.000	8.000	0	2	2 70
	10.000	2.000	0	70	70
	10.000	3.000	0	34	34
	10.000	10.000	0	881	881
	15.000	2.000	19	0	19
	15.000	3.000	0	92	92
	15.000	5.000	0	220	220
	15.000	15.000	0	9	9
	20.000	10.000	0	1	1
	20.000	20.000	0	1,533	1,533
	25.000	3.000	4,596	0	4,596
	25.000	5.000	43	181	224
	25.000	10.000	0	55	55
	25.000	25.000	0	28	28
	30.000	10.000	0	4	4
	30.000	30.000	0	772	772
	40.000	10.000	0	1	1
	40.000	40.000	0	307	307
	45.000	45.000	0	7	7
	50.000	3.000	22,417	0	22,417
	50.000	10.000	0	424	424
	50.000	15.000	0	124	124
	50.000	50.000	0	4,038	4,038
	60.000	60.000	0	12	12
	70.000	70.000	0	6	6

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	75.000	10.000	0	3	3
	75.000	25.000	0	489	489
	75.000	75.000	0	12	12
	80.000	20.000	0	15	15
	80.000	80.000	0	1	1
	90.000	90.000	0	3	3
	100.000	10.000	108	21	129
	100.000	20.000	0	455	455
	100.000	30.000	0	58	58
	100.000	50.000	0	1	1
	100.000	100.000	0	7,768	7,768
	150.000	10.000	99,858	22	99,880
	150.000	20.000	3	0	3
	150.000	40.000	0	6	6
	150.000	150.000	0	116	116
	155.000	155.000	0	3	3
	200.000	10.000	1,354	0	1,354
	200.000	20.000	0	261	261
	200.000	200.000	0	2,917	2,917
	250.000	250.000	0	63	63
	300.000	30.000	7,591	232	7,823
	300.000	50.000	0	2	2
	300.000	75.000	0	11	11
	300.000	80.000	0	1	1
	300.000	300.000	0	1,625	1,625
	350.000	350.000	0	1	1
	400.000	400.000	0	326	326
	500.000	10.000	51,254	0	51,254

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	500.000	35.000	0	39	39
	500.000	500.000	0	1,617	1,617
	600.000	600.000	0	17	17
	700.000	700.000	0	19	19
	800.000	800.000	0	3	3
	900.000	900.000	0	5	5
	940.000	940.000	63,516	0	63,516
	1,000.000	35.000	7,458	19	7,477
	1,000.000	1,000.000	0	2,629	2,629
	2,000.000	2,000.000	0	161	161
	3,000.000	3,000.000	0	49	49
	4,000.000	4,000.000	0	25	25
	5,000.000	5,000.000	0	74	74
	6,000.000	6,000.000	0	5	5
	8,000.000	8,000.000	0	8	8
	10,000.000	10,000.000	0	124	124
	20,000.000	20,000.000	0	4	4
	30,000.000	30,000.000	0	1	1
	40,000.000	40,000.000	0	5	5
	70,000.000	70,000.000	0	1	1
	100,000.000	100,000.000	0	6	6
	Total		5,808,085	449,107	6,257,192

Fixed Voice Subscription

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Alabama	0	0	46	0
Arizona	264	0	538,625	320,788
Arkansas	0	0	51,481	22,727
California	1,929	0	471,143	278,865
Colorado	0	0	1,131	0
Connecticut	0	0	74,495	52,434
Florida	0	0	96,710	52,245
Georgia	0	0	35,226	20,092
Idaho	0	0	3,077	1,922
Illinois	0	0	62	0
Indiana	0	0	38	0
Iowa	0	0	13,160	7,600
Kansas	153	0	126,931	60,687
Kentucky	0	0	4	0
Louisiana	10	0	217,230	117,282
Maryland	0	0	156	0
Massachusetts	0	0	108	0
Michigan	0	0	25	0
Mississippi	0	0	3	0
Missouri	0	0	114	0
Nebraska	332	0	120,154	61,942
Nevada	0	0	255,911	157,593
New Hampshire	0	0	11	0
New York	0	0	4	0
Ohio	0	0	22,084	15,841
Oklahoma	1,149	0	258,446	120,459
Oregon	0	0	48	0
Pennsylvania	0	0	50	0

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Rhode Island	4	0	143,102	80,867
South Carolina	0	0	4	0
South Dakota	0	0	4	0
Tennessee	0	0	164	0
Texas	0	0	543	0
Utah	0	0	81	0
Virginia	4,693	0	359,174	174,827
Washington	0	0	25	0
West Virginia	0	0	13	0
Total	8,534	0	2,789,583	1,546,171

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Arizona	0	0
California	0	0
Kansas	0	0
Louisiana	0	0
Nebraska	0	0
Oklahoma	0	0
Rhode Island	0	0
Virginia	0	0
Total	0	0

VGE Lines Provided to End Users by State, Bundle and Product Type

		by B	by Product Type				
				Consume	er	Business/G	ovt.
State	Total	Sold w/ Internet	Sold w/o Internet	& No PIC	& PIC	& No PIC	& PIC
Arizona	264	12	252	0	0	105	159
California	1,929	28	1,901	0	0	1,208	721
Kansas	153	5	148	0	0	105	48
Louisiana	10	2	8	0	0	8	2
Nebraska	332	3	329	0	0	283	49
Oklahoma	1,149	14	1,135	0	0	714	435
Rhode Island	4	2	2	0	0	0	4
Virginia	4,693	23	4,670	0	0	4,065	628
Total	8,534	89	8,445	0	0	6,488	2,046

VGE Lines Provided to End Users by State, Ownership and Last-Mile Medium

		by Ownership			by Last-Mile Medium						
State	Total	Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper			
Arizona	264	243	21	0	8	256	0	0			
California	1,929	1,740	189	0	709	1,220	0	0			
Kansas	153	146	7	0	0	153	0	0			
Louisiana	10	9	1	0	10	0	0	0			
Nebraska	332	322	10	0	0	332	0	0			
Oklahoma	1,149	1,058	91	0	24	1,125	0	0			
Rhode Island	4	4	0	0	0	4	0	0			
Virginia	4,693	4,463	230	0	396	4,297	0	0			
Total	8,534	7,985	549	0	1,147	7,387	0	0			

Fixed Voice Subscription (iVoIP)

State	Total	Consumer	Business/Govt.
Alabama	46	0	46
Arizona	526	0	526
Arkansas	433	0	433
California	7,525	0	7,525
Colorado	1,131	0	1,131
Connecticut	10	0	10
Florida	147	0	147
Georgia	25	0	25
Idaho	70	0	70
Illinois	62	0	62
Indiana	38	0	38
Iowa	76	0	76
Kansas	1,229	0	1,229
Kentucky	4	0	4
Louisiana	296	0	296
Maryland	156	0	156
Massachusetts	97	0	97
Michigan	25	0	25
Mississippi	3	0	3
Missouri	114	0	114
Nebraska	1,173	0	1,173
Nevada	687	0	687
New Hampshire	11	0	11
New York	4	0	4
Ohio	70	0	70
Oklahoma	652	0	652
Oregon	48	0	48
Pennsylvania	50	0	50

State	Total	Consumer	Business/Govt.
Rhode Island	65	0	65
South Carolina	4	0	4
South Dakota	4	0	4
Tennessee	164	0	164
Texas	543	0	543
Utah	81	0	81
Virginia	2,330	0	2,330
Washington	25	0	25
West Virginia	13	0	13
Total	17,937	0	17,937

All Other VoIP Subscriptions by State, End User Type, Bundle and Last-Mile Medium

		by End User Type		by B	undle	by Last-Mile Medium			
State	Total	Consumer	Business/Govt.	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Alabama	0	0	0	0	0	0	0	0	0
Arizona	538,099	320,788	217,311	433,878	104,221	14,776	523,323	0	0
Arkansas	51,048	22,727	28,321	40,693	10,355	488	50,560	0	0
California	463,618	278,865	184,753	371,020	92,598	25,943	437,675	0	0
Colorado	0	0	0	0	0	0	0	0	0
Connecticut	74,485	52,434	22,051	64,843	9,642	315	74,170	0	0
Florida	96,563	52,245	44,318	82,080	14,483	1,703	94,860	0	0
Georgia	35,201	20,092	15,109	30,670	4,531	727	34,474	0	0
Idaho	3,007	1,922	1,085	2,656	351	37	2,970	0	0
Illinois	0	0	0	0	0	0	0	0	0
Indiana	0	0	0	0	0	0	0	0	0
Iowa	13,084	7,600	5,484	9,952	3,132	32	13,052	0	0
Kansas	125,702	60,687	65,015	94,179	31,523	752	124,950	0	0
Kentucky	0	0	0	0	0	0	0	0	0

		by End User Type		by B	undle	by Last-Mile Medium			
State	Total	Consumer	Business/Govt.	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Louisiana	216,934	117,282	99,652	177,213	39,721	1,546	215,388	0	0
Maryland	0	0	0	0	0	0	0	0	0
Massachusetts	11	0	11	0	11	10	1	0	0
Michigan	0	0	0	0	0	0	0	0	0
Mississippi	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0	0	0
Nebraska	118,981	61,942	57,039	90,126	28,855	1,821	117,160	0	0
Nevada	255,224	157,593	97,631	218,306	36,918	7,363	247,861	0	0
New Hampshire	0	0	0	0	0	0	0	0	0
New York	0	0	0	0	0	0	0	0	0
Ohio	22,014	15,841	6,173	19,337	2,677	41	21,973	0	0
Oklahoma	257,794	120,459	137,335	193,814	63,980	11,483	246,311	0	0
Oregon	0	0	0	0	0	0	0	0	0
Pennsylvania	0	0	0	0	0	0	0	0	0
Rhode Island	143,037	80,867	62,170	112,422	30,615	435	142,602	0	0
South Carolina	0	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0	0
Virginia	356,844	174,827	182,017	260,678	96,166	4,519	352,325	0	0
Washington	0	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0	0
Total	2,771,646	1,546,171	1,225,475	2,201,867	569,779	71,991	2,699,655	0	0