C. Project Narrative

1. Project Description and Timeline

Project Description and Timeline Reference Table	
The nature of the improvements	Please reference paragraphs 1 and 2
How the proposed project addresses the broadband needs of the area(s) that it serves	Please reference paragraph 3
Number of community anchor institutions served	13
Number of households served	4,468
Number of businesses served	123
Total population served	9,001
The anticipated economic development benefit achieved by construction of such improvements	Please reference paragraph 3
Total miles of fiber to be installed (if applicable)	139.36
Location of new fiber (aerial, underground or both?)	Underground
Stated commitment to operate and maintain the network for a minimum of five (5) years upon completion of the improvements	Comcast commits to operating and maintaining the network for a minimum of five years upon completion of the improvements. Additionally, Comcast has operated in other areas of Pinal County since 1999 and holds a current Uniform Video Service License Agreement (Title 11) with the County effective through June 16, 2030.
The party or parties that will perform the infrastructure construction (if known)	Activation of this project will be completed by both licensed and bonded in-house Comcast employees and select contract personnel.
The intended uses of the ABDG Rural/Urban funds in respect to the construction or planning	ABDG Rural funds will be used to cover a portion of the network construction and activation costs associated with this project.
The specific information required under Section 1.4 (to the extent relevant)	Comcast will build a fiber-to-the-home network that within twenty-four months of the award date will provide residential broadband speeds of at least 1.2 Gbps download and 100 Mbps upload to 4,468 unserved homes and Comcast Business high-speed Internet services with downstream speeds up to 1 Gbps and fiber-based speeds that range up to 100 Gbps to 123 unserved businesses.
A timeline for completion of the infrastructure improvements	Please reference paragraph 4 through 9
The timing of such match. The intended uses of the match. The identity of any sources other than the applicant who are responsible for such match or portions thereof. The nature of the commitment by the Applicant or other parties to deliver the match including whether such commitment is in writing and binding in all circumstances.	Comcast's matching funds are available immediately following a successful application and the receipt of a grant award from the State. Comcast commits to a [redacted] contribution to this project to cover the balance of all costs associated with bringing a fiber-to-the-home network to 4,468 homes and 123 businesses.

1) Comcast will extend service to approximately 4,468 unserved homes, 123 unserved businesses, and 13 unserved anchor institutions within the area provided in this application. See Attachment "Section H.1 Pinal County Census Blocks_ABDG-22_Comcast response" for a full list of the census blocks that will be served by this project.

2) This grant will enable Comcast to extend broadband service of at least 1.2 Gbps download and 100 upload to unserved homes in the proposed service area within 24 months of the grant award date. The proposed project area will have access to some of the fastest and most reliable broadband speeds available nationwide. This project would not, in the absence of an ABDG-Rural award, occur within the same time frame and would likely not be feasible without ABDG-Rural award funding.

3) The availability of broadband service will increase educational achievement, occupational productivity, entertainment choices, overall health and well-being and property values. Providing broadband service to this underserved area of Arizona will benefit the entire area. Having access to broadband will enable residents to bridge the local skills gap, expand their career pathway, and improve their overall quality of life. Residents will be better able to engage in online sales and marketing, banking, telemedicine, improve and increase educational opportunities for students, provide for the use of smart devices in the home; increasing efficiencies for lighting and heating, and encourage the use of technology by the older population.

4) While Comcast does not anticipate that any homes or businesses in the Pinal County proposed project area will require a construction contribution, we note that in some cases homes within the project area situated in excess of 300' from the road center would also have access to broadband service but may require a contribution in aid of the construction if the actual costs of connection exceed the standard installation costs. Actual costs of construction are determined based on a number of factors. Factors such as distance from the network, necessary underground trenching, distance from certain electronics on the network, and easement and franchise requirements, among other factors, would be considered. Comcast would provide each home with a contribution estimate, if any, prior to construction.

5) Throughout the duration of the project a dedicated Comcast account team will be in contact providing status updates and answering any questions the community may have. A detailed 24-month project timeline is provided below. Please see Attachment "Section C.1 Gantt Chart_ABDG-22_Comcast response" for the project Gantt Chart.

Project Milestones - All planning, procurement, construction, installation, testing and turn-up milestones	**Estimated Completion Date**
Arizona Broadband Development Grant	January 2022
ABDG award notification date (target)	February 28, 2022
Planning Activities, Pre-Construction	
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
Construction Activities	
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

Network test and turn-up	November 2022 - June 2024
Customer Activation	
[redacted]	[redacted]

Comcast Service Delivery Major Milestones

- Outside and Inside Surveys – Comcast will conduct outside plant and customer site surveys.
- Permits & Right of Entry Agreements – Comcast will obtain required permits and work with property owner to obtain Right of Entry/Access agreements.
- Service Configurations – Comcast National Team will implement Network Core Configurations.
- Outside and Inside Fiber/Coax Construction – Comcast will complete outside and inside construction. Customer Premise Equipment Installation/Plant Test Date (PTD) – Comcast will dispatch to the customer's premise to install CPE, connect CPE to Fiber, and call Comcast Test & Turn-up to complete plant test.

Comcast Responsibilities

- Construct all OSP and ISP fiber optic cabling up to the agreed upon locations from the site survey forms and connect locations.
- Call for locates of public utilities in the right of way.
- Restoration of disturbed grounds.
- Assemble, configure, and install all Comcast provided network equipment on customer premise.
- Test and verify all appropriate fiber connections.
- Test and verify all appropriate data interfaces/connections and verify throughput.
- Provide 24x7x365 network monitoring.

6) Comcast has completed the planning and preliminary engineering phase for the proposed project area within Pinal County. Final design and construction shall commence within three months after the date of an executed Agreement.

7) Workflow is included in the attached Gantt Chart, please reference "Section C.1 Gantt Chart_ABDG-22_Comcast response." The specific initial tasks include project engineering and right of way preparation. These projects are designed to place all new facilities underground, thus avoiding time-consuming and expensive make-ready work and pole application agreements. Comcast will need to obtain the necessary permits from the relevant government agencies. Comcast will work to obtain the necessary permits and power supplies expeditiously. This coordination will need to begin immediately upon notice of the grant award.

8) Also, upon receipt of the grant, Comcast will make contact with all "nonstandard drop" customers to determine if they will be interested in Comcast services and if they would allow Comcast to perform work on their private property. Material procurement and some pre-construction work will occur in this period and this will enable Comcast to proceed with actual construction as soon as the relevant agencies issue the right of way permits. Activation of all plant will be completed by both licensed and bonded in-house Comcast employees and select contract personnel. The final quality control inspection of all new infrastructures will be completed by Comcast employees to ensure all new construction meets or exceeds FCC standards. Notice to potential customers of service availability will occur on a rolling basis as construction is completed.

[redacted]

[redacted]

2. Project Description and Timeline – Development

Project Description and Timeline – Development Reference Table	
The nature and scope of the project	Please reference paragraphs 1 through 6
Type of technology to be utilized	Please reference paragraphs 1 through 6
Type of construction to be undertaken (aerial or underground)	Underground
Qualifications of the vendors/contractors	Please reference paragraph 7 through 32 under heading "About Comcast"
Engineering analysis	Please reference paragraphs 1 through 6
Project approach	Please reference paragraphs 1 through 6
Background of the project	Please reference paragraphs 1 through 6
Population to be served	9,001
Number of households served	4,468
Number of anchor institutions served	13
Number of businesses served	13
Ways in which the project will improve redundancy and reliability, if any	Please reference paragraphs 1 through 22

1) Comcast has built a fiber backbone at the core of its network that stretches across the country with more than 191,000 route miles of fiber– using the industry's advanced optics/lasers and Internet Protocol ("IP") routing technologies. Dozens of converged regional area networks interconnect to create this fiber backbone that delivers high-speed Internet, video, and voice services to tens of millions of customers throughout the country. IP technology ties all of this together, creating a highly scalable connectivity platform or "IP core." Nearly all of the 60 million homes and businesses in our service areas can access our ultra-fast Xfinity Gigabit Internet and Comcast Business Gigabit services, including our customers in Arizona.

2) Comcast proposes to construct the project using all fiber-optic technology. Upon completion of construction, Comcast will be able to provide broadband speeds of at least 1.2 Gbps download and 100 Mbps upload. The fiber plant will be capable of gigabit symmetrical service. Fiber-optic cables emanating from Comcast's network hub will be constructed to terminals directly connected to subscribers' homes, businesses, and/or community anchor institutions in Arizona. This all-fiber network will be future-proof and highly scalable, permitting bandwidth potential well beyond foreseeable needs, fast symmetrical speeds, and low latency. Over time, the network will be readily scalable to meet consumer demands for even higher speeds and more bandwidth simply by upgrading modulating electronics within the already-deployed network.

3) **Affordability of the offered service.** Upon completion of the proposed project area, Comcast will be able to offer customers multiple choices of residential and commercial broadband services, depending on customers' specific needs. Below are the standard, everyday and promotional prices available as of the date of this submission to existing Comcast service areas in Arizona:

Residential Internet Tier	Speed down/up	Everyday Pricing/month	Promotional Pricing/month	Promo Duration
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Note: Prices do not include equipment or applicable taxes, fees, and surcharges. Optional equipment rental is available for service tiers other than Internet Essentials at [redacted]. Gigabit Pro equipment rental is [redacted]. Promo and Everyday pricing includes a [redacted] Auto Pay Paperless Bill Discount (APPD.) Internet Essentials and Gigabit Pro do not qualify for APPD Discount.

Comcast Business Package	Speed (Down/Up)	Rack Rate (Per Month)
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]

[redacted] *do not include equipment or applicable taxes, fees, and surcharges.*

Rates stated are the monthly rates for standalone Internet service as of the date of this submission. Discounted pricing may be available to customers who accept promotional offers or term agreements for Internet service or buy one or more additional services. For more information about affordable service offerings, please see paragraphs 19-21 below.

4) Over the last several years, Comcast has made extensive, multi-million-dollar investments in new coaxial and fiber network throughout the nation, ensuring that Comcast's services to both business and residential customers are scalable and capable of expanding to meet evolving community needs. We have extended our infrastructure to more and more businesses since launching our commercial service less than 15 years ago, bringing competition and lower prices to the small, medium, and large business sector market. And we continue an aggressive and proactive multi-million-dollar construction investment effort to extend our network even further throughout the communities we serve. We have also been on a pace of doubling network capacity every 2 ½ years, which ensures that we stay well ahead of consumer demand.

5) As discussed in more detail above, our network services today include broadband offered on a wired and Wi-Fi basis in homes, businesses, and public locations. Comcast's broadband service capabilities include up to 10 Gigabit symmetrical services to businesses (and as high as 100 symmetrical Gigabits for businesses that meet specific criteria), and our residential broadband speeds in Arizona range from 50 Mbps to 3 Gbps.

6) Comcast is also one of the first U.S. Internet Service Providers to offer a WiFi 6 Certified gateway with the latest version of its xFi Advanced Gateway, which is capable of delivering multi-Gigabit speeds via ethernet that has laid the groundwork for Gigabit speeds over WiFi. Customers on the new upgraded Xfinity Gigabit

tier will require an xFi Advanced Gateway, or one of the WiFi 6 capable devices approved to work with the Xfinity network to receive the faster speeds.

About Comcast

7) Comcast is a leading communications provider in the United States, currently operating throughout 39 states and the District of Columbia. With over 31.4 million residential and business services broadband customers, 19 million video customers, and 10.8 million voice customers, Comcast passes over 60 million homes and businesses.

8) Over the past several decades, Comcast has invested in technology to build an advanced, highly scalable network that delivers among the fastest broadband speeds in the country, ranging from 25 Mbps to 3 Gbps for residential customers and up to 10 Gbps for business customers. Comcast is the nation's largest gigabit Internet provider, and nearly all of our 60 million homes and businesses passed in our service territory can access our ultra-fast Xfinity Gigabit Internet and Comcast Business Gigabit services, including our customers in Arizona. Moreover, approximately 85 percent of our residential High-Speed Internet customers subscribe to speeds of 100 Mbps or higher.

9) We've spent nearly [redacted] in the last decade building an expansive fiber-dense network comprised of 191,000 route miles that carries an immense amount of traffic and has demonstrated extraordinary performance throughout the pandemic. Comcast has established an industrywide reputation for technology leadership, superior products, and operational efficiency. Comcast's broadband products are the service of choice for residential and business customers throughout our service area.

10) To support the growing needs of the digital world, Comcast is working hard to make its network smarter, by leveraging cloud, backbone, and architecture advancements to provide a faster, stronger, and more flexible network. By optimizing traffic routing and moving resources closer to where they are needed, our network provides the key to managing the ever increasing traffic demands of today's Internet. The powerful combination of our broadband and Wi-Fi network and the cloud is enabling us to innovate and bring transformative products to market, redefining how our customers enjoy entertainment, connect, and communicate inside and outside of their home or office.

11) In Arizona, Comcast employs over [redacted]. In the last three years, Comcast has invested more than [redacted] in payroll, benefits, and training for its Arizona workforce. The company maintains a large, locally based engineering technical operations team that works around the clock to maintain network reliability and to directly support the company's business and residential customers. More than 175,000 homes and businesses have access to our Xfinity and Comcast Business products and services today. Many of these communities are very rural in nature. In total, Comcast has invested [redacted] in Arizona, including capital expenditures, employee wages and benefits, taxes and fees, and charitable giving to local organizations in the last three years.

12) ***High-Speed Internet Services.*** Comcast's robust high-speed Internet services provide a range of fast, reliable Internet speed tiers to fit customers' needs, as well as access to over 20 million secure Wi-Fi hotspots nationwide so that customers can stay connected on the go. Customers also have access to the Xfinity app to optimize their home connections, view their plans, pay their bills, and get 24/7 real-time support. And they also have access to xFi – a simple, digital dashboard for customers to control their home Wi-Fi network. In addition to parental control features like pausing Wi-Fi and screen time scheduling, xFi provides content filters that ensure younger children can only access age-appropriate content. xFi now also comes with xFi Advanced Security, that protects all the devices connected to a customers' home network from malware and other security threats.

13) ***Video Services.*** Comcast also offers a broad variety of video services, primarily through our X1 platform, an IP and cloud-enabled video platform that delivers the simplest, fastest, and most complete way for customers to access all their entertainment on all their screens. Video customers have access to hundreds of

channels depending on the level of service, which typically range from limited basic service with access to between 20 and 60 channels to full service with access to more than 300 channels. Video services generally include programming provided by national broadcast networks, local broadcast stations, and national and regional cable networks, as well as government and public access programming. Our video services also include access to video on demand services and an interactive, on-screen program guide. Through the X1 platform, customers have integrated search functionality, including the use of the X1 Voice Remote, a voice-activated remote control that customers can use to change channels, search for shows, get recommendations, and more; and access to and the integration of Peacock, which X1 customers receive for no additional charge, certain third-party direct-to-consumer streaming services such as Amazon Prime Video, HBO Max, Hulu, Netflix, YouTube, and Disney+, and a variety of other Internet-based apps providing content and music. Customers have access to their video services through the Stream mobile app and an online portal that allow them to view certain live programming and OnDemand content and to browse program listings.

14) For high-speed Internet customers that prefer streaming content over the Internet rather than linear cable television, Comcast offers Flex, a streaming device that provides access to certain online programming on their television with integrated search functionality, including the use of a voice-activated remote control and personalized recommendations. Flex uses IP technology and our own cloud network servers to deliver video and advanced search capabilities, including through a voice-activated remote control, and that provide access to certain third-party internet apps. Flex programming includes Comcast's Peacock service and certain other Internet-based apps at no additional charge, access to pay-per-view and video on demand content, and access to and the integration of certain third-party direct-to-consumer streaming services such as Amazon Prime Video, HBO Max, Hulu, Netflix, YouTube, and Disney+. Additionally, a variety of music apps such as Pandora are offered through Flex.

15) ***VoIP Services.*** In addition, Comcast offers voice services using interconnected Voice over Internet Protocol technology. Service options provided include either unlimited or usage-based local and domestic long-distance calling, as well as options for international calling plans, voicemail, readable voicemail, nuisance call blocking tools and various call features such as caller ID and call waiting. Voice services also include the ability to access and manage voicemail and other account features through an online portal or mobile app.

16) ***Xfinity Mobile.*** Furthermore, Comcast offers wireless services for handsets, tablets and smart watches using mobile virtual network operator rights to provide the services over Verizon's wireless network and our existing network of more than 20 million in-home and outdoor Wi-Fi hotspots. We currently only offer these services as part of our bundled service offerings to residential customers that subscribe to high-speed Internet service within our cable distribution footprint and to a limited group of small business high-speed Internet customers on similar terms. Customers may choose to pay for services on an unlimited data plan, shared data plans, or per gigabyte of data used. Customers have the ability to bring their own device or purchase them from us with the option to pay upfront or finance the purchase interest-free over 24 months.

17) ***Xfinity Home.*** Xfinity Home, powered by Xfinity Internet, is one of the fastest growing home security providers in America. Not only does it offer peace of mind with 24/7 professional monitoring with battery and cellular backup, but it also includes smarter home security features like video monitoring and the ability to manage and control an increasing number of third-party smart home devices from a phone, tablet, the Xfinity Home touchscreen, or via the X1 Voice Remote.

18) ***Comcast Business Services.*** Comcast Business Services offers a variety of products and services to businesses. Our service offerings for small business locations primarily include high-speed Internet services, as well as voice and video services, that are similar to those provided to residential customers, cloud-based cybersecurity services, wireless backup connectivity, advanced Wi-Fi solutions, video monitoring services and cloud-based services that provide file sharing, online back up and web conferencing, among other features. Comcast also offers Ethernet network services that connect multiple locations and provide higher downstream and upstream speed options to medium-sized customers and larger enterprises, as well as

advanced voice services, along with video solutions that serve hotels and other large venues. In addition, Comcast provides cellular backhaul services to mobile network operators to help them manage their network bandwidth. Comcast has expanded its service offerings to include a software-defined networking product for medium-sized and enterprise customers. Larger enterprises may also receive support services related to Wi-Fi networks, router management, network security, business continuity risks and other services. These service offerings are primarily provided to Fortune 1000 companies and other large enterprises with multiple locations both within and outside of Comcast's cable distribution footprint, where we have agreements with other companies to use their networks to provide coverage outside of our service areas.

19) ***Comcast Internet Essentials.*** Comcast also makes available its Internet Essentials program to qualifying low-income customers in its service areas, which is the nation's largest, most successful, and most comprehensive broadband adoption program for low-income households, and Comcast's number one community impact initiative. Internet Essentials currently provides customers with broadband service at speeds of up to 50 Mbps/10 Mbps for [redacted] plus applicable taxes, fees and surcharges, as well as free digital skills training in person and online. Customers also have the option to purchase a low-cost Internet-ready computer.

20) Since launching in 2011, Comcast has made dozens of improvements to the program, including expanding eligibility 12 times—bringing Internet Essentials to new audiences such as public housing residents, low-income veterans, seniors, community college students, and most recently, to all qualified low-income households living in Comcast's service area. Comcast has also increased the speeds for Internet Essentials, with the most recent speed increase to 50 Mbps/10Mbps occurring earlier this year. Since 2011, Internet Essentials has connected a cumulative total of more than ten million Americans to the Internet.

21) Comcast is proud to be an approved provider supporting the federal government's Affordable Connectivity Program (ACP) program. Under the ACP program, qualifying customers may apply a credit of up to [redacted] to any Xfinity Internet service tier, including Internet Essentials. Please reference the ACP Flyer for more information.

22) ***Customer Service.*** In addition to Comcast's deep experience as a communications service provider offering a variety of services, Comcast also has the appropriate number of technicians, call center agents and backend support employees to care for additional customers. Comcast also maintains large, locally based engineering and technical operations teams that work around the clock to maintain service reliability and provide direct support to the company's business and residential customers. Moreover, Comcast proactively monitors and maintains its network 24/7 through its dedicated Network Operations Center (NOC). The NOC continuously monitors the network equipment, service health, and performance of the Comcast network, responds to network events and service degradations, dispatches local field technicians, and informs customers of service issues, in many cases before the customer has noticed the problem. The NOC also operates a 24 x 7 x 365 Technical Customer Support helpdesk that responds to calls for all of Comcast's services. The NOC maintains a staff of engineers and technicians with an average of 12 years' tenure, thus ensuring business continuity.

23) We monitor our network 24/7 to provide reliable service, and to prevent potential problems before they occur. Our workforce is comprised of technicians, engineers, and other frontline team members who are always working to ensure fast, reliable Internet access. We have teams focused on expanding access and improving connectivity, in tandem with our operations centers performing health checks to pinpoint potential issues. Severe weather and power outages happen, and we know it can be frustrating when that interrupts Internet access. That's why we work to get you connected as quickly as possible once power is restored, ensuring the safety of our workforce in conjunction with rapid restoration of service.

24) We support our customers with call centers as well as many self-service options such as digital and chat. We created the MyAccount feature within Xfinity app (available on the web and mobile devices) so

customers can manage all aspects of their account on their own when it is convenient for them. With this tool, customers can:

- Review account information, including changing their password;
- Troubleshoot a device in the home by re-booting it remotely or pair a new voice remote;
- Review the services included in their subscription and manage their programming options;
- View billing history and payment status, including online bill pay;
- Receive notifications concerning the equipment in the home, service outages and when services are restored;
- Check their appointment time and reschedule appointments.
- Request a time for a Comcast representative to call them back.
- Monitor a technician's arrival time for scheduled appointments.
- Contact Xfinity by sending a tweet to @ComcastCares on Twitter.
- Find their neighborhood Xfinity store with hours, directions and services offered.

25) Additionally, we built the Xfinity Assistant, a virtual assistant that uses machine intelligence and natural language understanding to deliver informed, personalized customer service solutions. The Xfinity Assistant is available in the Xfinity mobile app and Facebook Messenger (through the Xfinity Facebook page) and helps millions of customers each month. With Xfinity Assistant, customers can type questions about their service and are provided with quick and easy solutions based on their inquiries

26) We are also using Xfinity Assistant to empower our Customer Care Agents with more context and continuity should a customer need further assistance. For example, if a customer calls in after using Xfinity Assistant we will see what they were searching for and can readily provide more information to easily assist the customer so they can get back to their lives, making the interaction easy and convenient for them.

27) From Xfinity Stores, to digital self-service tools and phone discussions, we want every interaction to be seamless. We are providing our customers the tools they need to quickly address any questions they may have.

Security – Business Customers

28) Commercial customers have their security needs served by a comprehensive program called Comcast Business SecurityEdge (CBSE). CBSE is a powerful first line of defense against malicious activity and threats: malware, ransomware, phishing, and botnet infections. It helps make sure connected employee and guest devices are secure when connected to a Comcast-provided network.

29) Since CBSE is cloud-based, updates are continuous, without interruption to one's business. Comcast's solution sweeps the Internet every 10 minutes to identify and mitigate new risks. Cloud-based also means fast, easy set-up with no software downloads or additional equipment needed other than a Comcast Business Internet modem.

Security – Residential Customers

30) Residential customers have their Internet protection provided through Xfinity xFi Advanced Security (XAS). XAS delivers a smarter, more personalized security solution for one's home network. From computers and mobile phones to home security cameras and smart thermostats, XAS protects all of a customer's connected devices for added peace of mind. XAS is available at no cost to Xfinity Internet subscribers who rent a compatible xFi Gateway. Features and benefits include:
    - Prevents customers from inadvertently visiting malicious sites and becoming a victim of phishing attacks.
    - Blocks remote access to smart devices, like home cameras, from known dangerous sources.
    - Helps monitor devices real-time and alerts a customer when devices are behaving in unusual ways that could indicate a network threat.
    - Adapts to one's home network and gets smarter to keep up with new threats over time.

- Provides real-time notifications and a dashboard to easily view and manage threats right from the Xfinity app or website.
- No additional hardware to install; all one needs is a compatible xFi Gateway.
- No software to install on individual devices; one's entire network is protected once XAS is enabled.

31) ***Experience Partnering with Public Agencies.*** Comcast has experience partnering with public agencies to deploy broadband infrastructure in unserved areas. In 2021, Comcast completed a rural broadband expansion project to the City of Las Vegas, New Mexico, bringing Gigabit-Internet services to more than 9,000 underserved homes and businesses. From 2020 to 2021, Comcast partnered closely with the towns of Eagle, Gypsum, and Kremmling in Colorado to expand its network and connect thousands of rural residents. For example, in 2018 Comcast received a Last Mile Broadband grant from the Virginia Tobacco Region Revitalization Commission to provide broadband access to approximately 7,000 homes and businesses, and Comcast completed the project in 2020 ahead of schedule and provided access to over 1,000 more homes and addresses than originally estimated. Between 2018 and 2020, Comcast received three Virginia Telecommunications Initiative ("VATI") grants from the Virginia Department of Housing and Community Development, and has now successfully deployed broadband to residences and businesses throughout each of the project footprints. Additionally, in 2016 in Massachusetts, Comcast was awarded a grant of [redacted] from the Massachusetts Technology Collaborative for construction of line extensions to areas in nine towns whose costs to construct exceeded Comcast's economic standards. Comcast completed the project on time, on budget, and reached 20% more homes than originally anticipated.

32) Comcast will extend service to 4,468 unserved homes, 123 unserved businesses, and 13 unserved anchor institutions within the area provided in this application.

3. Other Project Outcomes

According to data available from the FCC, homes and businesses in our proposed project area are either completely unserved today, or do not have access to broadband speeds faster than 25/3 Mbps. See Attachment "Section H.1 Pinal County Census Blocks_ABDG-22_Comcast response" for a detailed listing of census blocks to be served by this project. Providing broadband service to this underserved area will greatly improve the community's quality of life by enabling residents to bridge the local skills gap, expand their career pathways, access, and engage in telehealth opportunities, pursue education, and more.

Today, the majority of employment opportunities are disseminated via online sources. Access to broadband will enable residents of Arizona to easily search for and apply to open job listings and communicate with potential employers. It will also allow such residents to work from home.
Broadband access will also enable Arizonans to take greater control over their health care. Residents will be able to remotely access important health-related resources and technology, as well as communicate directly with health care providers.

Furthermore, with access to broadband, 9,001 community residents will be able to pursue education from their own homes and on their own time, which could provide significant savings compared to an on-campus traditional education experience. Online courses can be taken by anyone: homeschooled children, college students, entrepreneurs, freelancers, officegoers, and retirees. Education resources such as those offered by universities allows students to obtain a degree at their own pace and schedule without the added costs of on-campus life. Without high-speed Internet and increased broadband capacity, residents lack the connectivity they need to pursue a modern education and compete in today's world.

With at least 1.2 Gbps Internet speeds becoming available to home-based businesses and entrepreneurs, it opens the residents of Arizona to vast online resources and a worldwide marketplace. Providing broadband service to this underserved area will enable teleworkers to engage in on-line sales and marketing and increase the area's attractiveness for entrepreneurs and start-up entities, create economic development opportunities and help in the creation and retention of jobs.

Type	Project	Applicant	GEOID
Rural	Pinal County (Oracle, Mammoth, San Manuel)	Comcast	04021000700
Rural	Pinal County (Oracle, Mammoth, San Manuel)	Comcast	04021000700
Rural	Pinal County (Oracle, Mammoth, San Manuel)	Comcast	04021002200