



Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program

Submitted Date: 3/26/2010 2:34:28 PM	Easygrants ID: 4493
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: UNIVERSITY OF ARKANSAS SYSTEM
Task: Submit Application - BTOP	Applicant Name: Ms. Suzanne E Alstadt

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A. General Application Information

Applicant Information	
Name and Federal ID for Applicant	
DUNS Number	122452563
CCR # (CAGE)	1QJY4
Legal Business Name	UNIVERSITY OF ARKANSAS SYSTEM
Point of Contact (POC)	SUZANNE ALSTADT 5016865502 Ext. sealstadt@uams.edu
Alternate POC	REBECCA NICKLESON 5016865502 Ext. nicklesonrebeccag@uams.edu
Electronic Business POC	SUZANNE ALSTADT 5016865502 Ext. sealstadt@uams.edu
Alternate Electronic Business POC	REBECCA NICKLESON 5016865502 Ext. nicklesonrebeccag@uams.edu

Name and Contact Information of Person to be Contacted on Matters Involving this Application:	
Prefix	Ms.
First Name	Suzanne
Middle Name	E
Last Name	Alstadt
Suffix	
Telephone Number	501-686-8845



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Fax Number	
Email	sealstadt@uams.edu
Title	Director, Office of Research / Sponsored

Additional Contact Information of Person to be Contacted on Matters Involving this Application:

Project Role	Name	Phone	Email
Secondary Point of Contact	Ms. Rebecca , Nickleson	5016865502	rgnickleson@uams.edu

Environmental Point of Contact

Prefix: Ms. Name: Alstadt, Suzanne Suffix: Telephone Number: 501-686-8845 Title: Director, Office of Research and Sponsored Programs
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Organization Classification

Type of Organization	State or State Agency
Is the organization a small business?	No
Does the organization meet the definition of a socially and economically disadvantaged small business concern?	No

Authorized Organizational Representative

AOR Name	ALSTADT, SUZANNE
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Result	Applicant Authorized
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Project Title and Project Description

Project Title: The Arkansas Healthcare, Higher Education, Public Safety, & Research Integrated Broadband Initiative

Project Description: This project will upgrade, expand, and integrate fragmented, limited bandwidth broadband networks by offering 474 community anchor institutions substantial broadband upgrades, added broadband equipment, and connectivity to a fiber backbone to meet broadband needs in healthcare, higher education, public safety, and research in unserved, underserved, and economically distressed areas in Arkansas.

CCI Priority Checklist

The following items were selected from the CCI Priority Checklist:

1. This project will deploy Middle Mile broadband infrastructure to community anchor institutions.
3. This project will deploy Middle Mile broadband infrastructure in economically distressed areas.
4. This project will deploy Middle Mile broadband infrastructure to community colleges.
5. This project will deploy Middle Mile broadband infrastructure to public safety entities.
7. This project will deploy Middle Mile broadband infrastructure and the applicant has proposed to contribute 30 percent or more in non-federal cost match.

Comprehensive Community Infrastructure Components

The following items were selected from the Comprehensive Community Infrastructure Components:

Middle Mile

BIP Applicants



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Have you also applied to BIP for funding in the sample proposed funded service area?

- No

If Yes, please provide the project title and Easygrants ID number:

Title of Joint BIP Application:

Easygrants ID:

Other Applications

Is this application being submitted in coordination with any other application being submitted during this round of funding?

- Yes

Easygrants ID	Project Title
4642	BTOP: Sustainable Broadband Adoption: Arkansas Center for Telehealth

If YES, please explain any synergies and/or dependencies between this project and any other applications.

To accompany this BTOP Comprehensive Community Infrastructure (CCI) proposal, the University of Arkansas for Medical Sciences (UAMS) has submitted a BTOP Sustainable Broadband Adoption (SBA) proposal in collaboration with Connect Arkansas. The SBA proposal will work in concert with this CCI proposal in providing a framework for broadband training, public outreach, education, and technology support that will bolster the increased usage of broadband by community anchor institutions. Neither project is contingent on the other. The accompanying SBA submission is as follows:

BTOP: Sustainable Broadband Adoption: Arkansas Center for Telehealth, a collaborative proposal submitted by Connect Arkansas and UAMS. Easygrants Number: 4642.

Individual Background Screening

Is the Applicant exempt from the Department of Commerce requirements regarding individual background screening in connection with any award resulting from this Application?

- Yes, Applicant is exempt because it is an accredited college or university



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If the answer to the above question is "No," please identify each key individual associated with the Applicant who would be required to complete Form CD-346, "Applicant for Funding Assistance," in connection with any award resulting from this Application:

Name	Title	Employer

B. Executive Summary, Project Purpose and Benefits

Essay Question

Executive Summary of the proposed project:

Nationally, Arkansas ranks 46th in percentage of households with broadband access, and over half of the state's counties reside in the Mississippi Delta, the most distressed area of the nation. By virtually every indicator, including economic growth, education, and health, the Arkansas citizenry is one of the nation's most vulnerable populations. Exacerbating these facts, Arkansas' healthcare, higher education, public safety, and research entities suffer from insufficient broadband speed and equipment to deliver broadband applications needed to support Arkansas' citizens.

The combination is devastating. The benefits of telemedicine (e.g. interactive video clinical consultations, health information exchange, etc.) are unavailable to a significant number of facilities in Arkansas. Use of dial-up, dropped video calls, distorted or jittery video, and few, if any, publicly accessible computers are just some of the problems identified by Arkansas' healthcare facilities. Public safety entities utilize a disjointed emergency transportation system and a trauma network that lacks the resources needed to enable a regional system of emergency care. These public safety systems, which serve a state with the nation's third worst ranking in early deaths, function independently and lack interagency communication. In education, a fiber network currently serves the state's four-year universities and fosters collaboration in distance learning, online courses, and research studies, yet 58,000 students and 50,000 workforce trainees attending the state's two-year colleges lack connectivity to this network. Finally, public libraries



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and other research entities lack the broadband equipment to extend distance and online education to their communities, leaving consumers without access to applications aimed at improving their health, job skills, and well-being.

In response, the project will integrate isolated community anchor networks to expand the broadband capabilities and geographic reach of the Arkansas Telehealth Oversight & Management (ATOM) Network—a group of community anchor institutions with limited bandwidth and equipment that offer healthcare, higher education, public safety, and research services—and the Arkansas Research & Education Optical Network (AREON), the state’s only public-owned fiber optic network currently serving four-year universities. While the two networks serve as the foundations for this proposal, their full potential has not yet been achieved. For the ATOM Network, the project will substantially upgrade broadband services and/or equipment and upgrade over 100 new network sites to create a comprehensive statewide network of 441 community anchor institutions. For AREON, the project will expand the network’s fiber connectivity to reach all 22 state-supported two-year colleges. The ATOM Network will integrate with AREON by sharing fiber connectivity. All partners will provide public Internet connectivity to their consumers. Additionally, this project will permit high-speed delivery and transmission of the following broadband benefits at the 474 “integrated network” sites:

HEALTHCARE

- *Clinical telemedicine patient and provider consultations, and scientific research opportunities via real-time video
- *Electronic health information exchange of patient information
- *Distance education for real-time, interactive video learning and training
- *Home healthcare through handheld broadband devices
- *Research and educational materials available through healthcare colleges and schools
- *Insurance payment reimbursement for billable services delivered over interactive video

HIGHER EDUCATION

- *Fiber connectivity at all of the state’s 22 state-supported two-year colleges
- *Interconnectivity between two-year colleges and four-year universities through fiber, allowing distance education and research collaboration

PUBLIC SAFETY



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*Improved continuity of emergency systems by connecting Arkansas’ bioterrorism network, trauma network, and a metropolitan ambulance service

RESEARCH

*Interactive video equipment in public libraries to promote participation in consumer health/academic distance education and support groups

The project will serve 118 middle mile service areas in a vast proposed funded service area encompassing:

- *Every county in the state (75)
- *Every economically distressed county in the state (69)
- *Every county in Arkansas within the Mississippi Delta, the most distressed area of the country (42)
- *Every medically underserved county in the state (73)
- *135 communities

The project passes 474 community anchor institutions including:

- *Every acute care hospital, county health clinic, and center on aging
- *Every four-year university and two-year college
- *All state human development centers
- *A majority of federally qualified community health centers
- *A majority of mental health clinics and home health agencies
- *The state’s only academic medical center
- *The state’s only publicly owned fiber optic network
- *The state’s only bioterrorism network
- *The state’s only trauma network
- *Eight public libraries
- *An ambulance service
- *Other clinics, centers, and educational units

The existing ATOM Network and AREON governance bodies will oversee this project, with the state’s academic medical center providing centralized network management.

The upgraded ATOM Network will integrate with AREON in a “hub-and-spoke” system that ensures dedicated healthcare, higher education, public safety, and research activities, freeing



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existing circuits for public Internet use. Hubs and spokes will receive bandwidth upgrades, interactive video equipment, and/or public computers based on their needs.

*Primary Hubs represent 48 sites serving large numbers of end-users that will connect to a statewide fiber network for upgrades of 100 Mbps+, enabling simultaneous management of up to 40 broadband transmissions, including distance education or clinical video conferencing, imaging transfers, record transfers, remote monitoring, and health information exchange.

*Secondary Spokes represent 74 regional sites upgraded to 10 Mbps at 59 sites and 20 Mbps at 15 sites via dedicated point-to-point connections providing up to 15 distance education or clinical video conferences, imaging transfers, record transfers, and remote monitoring.

*Tertiary Spokes represent 352 sites serving primarily rural areas that will receive upgrades or new lines of 1.5 Mbps at 154 locations, which enables one simultaneous distance education or clinical video conference, image transfer, and record transfer. All tertiary spokes will receive equipment upgrades.

This solution will not compete with Internet Service Providers but rather contract with ISPs to provide network services.

As applicant, the University of Arkansas for Medical Sciences (UAMS) is the state's only academic medical center and is an ATOM Network partner. Offering 19 years expertise in creating, launching, and sustaining its 60-site Arkansas broadband healthcare network, UAMS oversees 483 hours of interactive video daily and is the centralized management and scheduling service to the state's healthcare broadband activities. ATOM Network partners also manage the state's bioterrorism and trauma networks, constructed the state's home health program, and other efforts. UAMS will grant a subaward to AREON to manage fiber construction and connectivity at two-year colleges. As creator of the state's only publicly owned fiber optic network, AREON currently oversees 1,455 miles of fiber backbone and 40 miles of lateral fiber serving 11 four-year universities, enabling limitless possibilities in distance education and research collaboration.

The project will serve 474 anchor subscribers (total number of partners), collectively serving 2,855,390 end-user subscribers (total population of Arkansas).



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The project will create 1,110 job-years, 66 direct job-years, 645 indirect job-years, and 400 induced job-years, a projection utilizing “Estimates of Job Creation” provided by the Council of Economic Advisors. Also, 129,858 jobs will be sustained by providing the expansion of healthcare workers’, educators’, and others’ roles through new broadband applications.

The project will meet all non-discrimination and interconnection obligations by (i) fulfilling FCC principles to encourage broadband deployment and preserve/promote the open and interconnected nature of the public Internet; (ii) offering managed services using dedicated connections and security measures to protect patient rights, with no preference for applications or content; (iii) operating in transparency, with full disclosure to potential users on its and its associates’ websites; (iv) offering public Internet access at its sites through publicly accessible computers; and (v) selecting ISPs based on cost efficiency and discounted pricing for high-speed broadband.

The project requires \$102,464,237, with a 31% match of \$46,720,413.

Project purpose:

The purpose of the Arkansas Healthcare, Higher Education, Public Safety, & Research Integrated Broadband Initiative (the project) is to address a problem at 474 community anchor institutions: lack of bandwidth and broadband equipment needed to reliably provide interactive video, health information exchange, and teleconferencing for clinical consultations, distance education, emergency event response, and other broadband-supported applications that are core expectations in their respective fields.

Illustrating the problem and its solution, two project partners located in the same underserved, rural, economically distressed town offer real-life examples of how broadband can make all the difference to their community:

A two-year college serves 20,000 students providing 3 Mbps bandwidth to students, staff, and surrounding communities. Limited bandwidth and high Internet activity has prevented students from completing online courses and testing. Although equipment exists to share compressed video classes with other two-year colleges, the facility does not have the bandwidth to offer distance education. This partner remarks that the college’s rural nature and limited bandwidth hinders their ability to serve their community, but connection to a statewide broadband network



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would enable them to attract more students and consumers by offering new educational opportunities. This project will provide a 3,233% increase in bandwidth to this two-year college.

A healthcare broadband network offers interactive video to a hospital in the same rural town through 1.5 Mbps bandwidth. Early one morning, an 89-year-old woman collapsed in her home, as the left side of her body went suddenly numb. After rushing her to the hospital, emergency staff connected her to a neurologist 145 miles away through interactive video, enabling a real-time stroke assessment that led to the doctor’s prompt stroke diagnosis and immediate administration of drugs that reduce stroke morbidity and mortality. Using broadband, this woman was saved from a “major stroke” and certain death. Just 24 hours later, the fully recovered woman called the intervention, “a little miracle.” This project will provide similar life-saving capabilities to healthcare facilities statewide that do not currently have these advantages.

As this rural community demonstrates, broadband can mean the difference between life and death.

As a solution, the project seeks to enhance, expand, and integrate two existing broadband networks that have not yet realized their full potential: the Arkansas Telehealth Oversight & Management (ATOM) Network and the Arkansas Research & Education Optical Network (AREON). While these networks reach some locations with limited bandwidth, equipment, or narrow geographic coverage, the project will significantly improve their collective capacities via:

- *Substantially upgraded bandwidth
- *New broadband equipment
- *Added network sites
- *Expansion of a fiber network

The healthcare-focused entities within the ATOM Network will integrate with the education-focused entities of AREON by sharing a statewide fiber optic network, bringing never-before-available, high-speed capacities to 474 healthcare, higher education, public safety, and research entities, thus responding to the needs of citizens whose health, education, safety, and well-being depend on community anchor institutions to offer seamless broadband connectivity. The “integrated network” meets all five BTOP statutory principles, as follows.



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*The proposed funded service area is comprised of 40% underserved and 6% unserved middle mile service areas.

*The libraries, medical and healthcare providers, two-year colleges, four-year universities, other institutes of higher learning, and other community support organizations comprising the integrated network's 474 partners will receive broadband education, awareness, training, access, equipment, and individualized technical support through these project features:

- Needed bandwidth and equipment at 474 locations
- Access to public computers and Internet at 474 locations
- Centralized network management with individualized training and troubleshooting for 474 locations
- Leveraging of a BTOP Sustainable Adoption project with Arkansas' broadband mapping agency
- A range of broadband-enabled consortia offered through two-year colleges to train employees and students in health information technology
- Partners specializing in healthcare delivery, education, and services for children
- Broadband collaborations, applications developed, and lessons learned that can be replicated in other areas

* The integrated network will enhance broadband capabilities at an ambulance service, bioterrorism network, and trauma network through increased bandwidth and equipment to rapidly respond to public safety through interactive video communication and emergency preparedness. The project will allow public safety entities to easily interconnect with all the 474 partners.

* The integrated network will stimulate the demand for broadband, economic growth, and job creation. One study revealed teleconferencing helps hospitals realize at least \$145,000 in yearly savings. Another study found that without telehealth, 94% of patients would travel 70 miles or more for medical care, 84% miss one day of work, and 74% spend \$75-\$150 on additional family expenses. With interactive video clinical consultations, 92% of patients saved \$32 in fuel costs, 84% saved \$100 in wages, and 74% saved \$75-\$150 in family expenses per visit, a total savings of up to \$282 per visit. With a statewide per capita income 21% less than the national average, Arkansans could greatly benefit from such cost savings. One lawmaker found that broadband access in educational settings could directly affect and ultimately lower the cost of



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college: online educational opportunities cost less than traditional classroom meetings due to lower costs of parking and utilities.

Recovery Act and Other Governmental Collaboration:

Project partners have pursued a number of broadband-related Recovery Act grants, including:

* BTOP Sustainable Broadband Adoption - Submitted as Connect Arkansas and UAMS collaboration. \$1,801,344

-Establishes the Arkansas Center for Telehealth (ACT)

-Promotes broadband health adoption through an outreach, education, and awareness initiative aimed at healthcare providers, administrators, and the public residing in the south's vulnerable populations

-Delivers technology training, needs-based curricula, an educational website, awareness campaign, and 24/7 technical support

-Status: Request pending

*Office of National Coordinator for Health Information Technology (ONCHIT) HIE Regional Extension Center – Submitted as part of the Arkansas Foundation for Medical Care (AFMC), representing the State of Arkansas. \$8,400,000

- Partners with UAMS to assist physicians in utilizing electronic medical records in their day-to-day practices

- The Regional Extension Center will assist primary care physicians in acquiring federal incentives to encourage adoption and use of Electronic Health Records in their practices. AFMC will work with up to 1,000 primary care physicians over the next two years.

- Status: Awarded

* Office of the National Coordinator for Health Information Technology (ONCHIT) State Health Information Cooperative Agreement Program - Submitted as part of the Department of Finance & Administration proposal, representing the State of Arkansas. \$7,900,000

-Leverages Arkansas' existing broadband networks and the proposed integrated network electronic health information exchange (HIE) activities, and statewide governing authorities in a collaborative effort to develop a coordinated, interoperable HIE, using technologies aligned with national standards to connect healthcare and health services providers statewide

-Unites stakeholders across Arkansas to contribute to the design of a statewide HIE system

-Status: Request pending

* ONCHIT Beacon Community Cooperative Agreement Program - Submitted by UAMS, representing the Northwest Arkansas Campus. \$19,839,500



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-Establishes a patient-centric Regional Health Record Network that connects all of the Northwest Arkansas hospitals and providers through a common electronic health record system

-Status: Request pending

Each proposal depends on the use of broadband to facilitate its activities. Increased speeds and installation of equipment will empower these initiatives to manage more of their activities through the 474 partnering community anchor institutions. Forty-two counties within the proposed funded service area reside in the Mississippi Delta, under the care of the Delta Regional Authority. Grant proposals and governmental collaboration that strengthen the project will be pursued at every opportunity to affect greater efficiencies.

Fit with BTOP CCI Priorities:

1) The ATOM Network will integrate with AREON to deploy middle mile infrastructure that will offer substantially upgraded broadband service and/or broadband equipment to 474 community anchor institutions in Arkansas, which will receive needs-specific upgrades that substantially improve bandwidth offered at each institution. Based on the average speed available at each type of site, the following percentages illustrate the percent increase in bandwidth speed that will be provided through this project.

*Hub sites: 567% increase in bandwidth (Average existing bandwidth at hub sites: 15 Mbps; proposed upgraded bandwidth: 100 Mbps)

*Secondary sites (two classes of upgrade): A. 567% increase in bandwidth (Average existing bandwidth at these secondary sites 1.5 Mbps; proposed upgraded bandwidth: 10 Mbps); B. 53.8% increase in bandwidth (Average existing bandwidth at these secondary sites 13 Mbps; proposed upgraded bandwidth: 20 Mbps)

*Tertiary sites: 94.8% increase in bandwidth (Average existing bandwidth at tertiary sites: 768 kbps; proposed upgraded bandwidth: 1.5 Mbps).

The key organizations representing the 474 community anchor institutions comprising the integrated network have presented Letters of Support that express their demand and/or needs for the proposed upgraded services and equipment. Further, needs assessments have gathered data used to determine the upgrades and equipment needed to deploy the most effective, relevant middle mile broadband infrastructure, as proposed.

2) The project will deploy middle mile broadband infrastructure that incorporates a public-private partnership with 252 government, 204 private, 18 public, 12 for-profit, and 462 non-



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profit community anchor institutions. Each partner has expressed demand and/or need for the proposed upgraded services and equipment. Letters of Support representative of these institutions have been provided.

3) The project will deploy middle mile broadband infrastructure in the proposed funded service area that includes 69 economically distressed counties. Only six counties within the proposed funded service area are considered non-distressed. Providing increased bandwidth and new equipment will allow community anchor institutions the resources needed to bolster growth in the distressed areas.

4) The project will deploy middle mile broadband infrastructure to all 22 two-year colleges in Arkansas, all of which have expressed a demand or indicated a need for or improved access to broadband service. Their support is documented through the provided Letters of Support. Two-year colleges will join the AREON fiber optic backbone, receiving substantially upgraded broadband services achieving 100 Mbps or greater to expand distance education and research opportunities to their students and surrounding communities.

5) The project will deploy middle mile broadband infrastructure to an ambulance service and the Arkansas' bioterrorism network, trauma network, and emergency management educational courses. The ambulance service will equip 10 ambulances with the bandwidth and equipment necessary to provide in-transit specialty care for emergencies through interactive video and monitoring made possible through broadband connectivity. Further, 51 medical healthcare provider sites within the project also act as public safety entities through the bioterrorism network and trauma networks, the only broadband-driven resources in the state designed to respond to catastrophic, bioterrorist, and other emergent events that affect the welfare of individuals and the public. The bioterrorism network encompasses 85 locations and will benefit from equipment to ease communication between the 474 community anchor institutions. The bioterrorist network utilizes a centralized command center to oversee the safety of all Arkansans. Arkansas is also home to a new public safety entity that will be comprised of integrated network sites: the Arkansas Trauma Communications Center. This statewide trauma center will utilize broadband at hospitals and Arkansas state health department sites to facilitate rapid access to trauma care in rural areas. The community anchor institutions participating in the trauma network are both medical healthcare providers and also public safety entities. As an added incentive, a four-year university in the integrated network offers bachelors- and masters-level degrees in emergency management and homeland security, programs that can exchange



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interactive video education and coursework with public safety entities, offering students a unique perspective in public safety. Each of these public safety entities has expressed a demand or indicated a need for improved capabilities to broadband service, as detailed in the provided Letters of Support.

7) The project will deploy middle mile broadband infrastructure with a commitment of a non-federal match of \$46,720,413, which is 31% of the total eligible costs of this project. Each key organization has contributed toward the match. Documentation of their support has been collected through signed and dated letters provided to the University of Arkansas for Medical Sciences.

Is the applicant seeking a waiver of the Buy American provision pursuant to section x.Q of the NOFA?

- No

Is the applicant delinquent on any federal debt?

- No

If Yes, justification for delinquency:

Are you seeking a waiver of any requirement set forth in the NOFA that is not mandated by statute or applicable law?

- No

Is the applicant a current recipient of a grant or loan from RUS?

- No

C. Partners

Are you partnering with any other key institutions, organizations, or other entities for this project?

- Yes

If YES, key partners are listed below:

Project Role: Sub-recipient Name: Abbiatti, Michael Phone: 4795753901



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<p>Email: mike.abbiatti@areon.net Address 1: 155 Razorback Road Address 2: Address 3: City: Fayetteville State: Arkansas Zip Code: 72701 Organization: Arkansas Research and Education Optical Network (ARE-ON) Organization Type: Other Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Third party in-kind contributor Name: McGrew, Charles Phone: 5012804061 Email: Charles.McGrew@Arkansas.gov Address 1: 4815 West Markham Address 2: Address 3: City: Little Rock State: Arkansas Zip Code: 72205 Organization: Arkansas Department of Health Organization Type: State or State Agency Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Third party in-kind contributor Name: Selig, John Phone: 5016828999 Email: John.Selig@arkansas.gov Address 1: Donaghey Plaza Address 2: 7th and Main Streets Address 3: City: Little Rock State: Arkansas Zip Code: 72203 Organization: Arkansas Department of Human Services Organization Type: State or State Agency Small business: No Socially and economically disadvantaged small business concern: No</p>



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Project Role: Other
 Name: Adams, Don
 Phone: 5012247878
 Email: donadams@arkhospitals.org
 Address 1: 419 Natural Resources Drive
 Address 2:
 Address 3:
 City: Little Rock
 State: Arkansas
 Zip Code: 72205
 Organization: Arkansas Hospital Association
 Organization Type: Other
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Other
 Name: Ashcraft, Carolyn
 Phone: 5016821526
 Email: cashcraf@asl.lib.ar.us
 Address 1: 900 W. Capitol Mall
 Address 2: Suite 100
 Address 3:
 City: Little Rock
 State: Arkansas
 Zip Code: 72201
 Organization: Arkansas State Library
 Organization Type: State or State Agency
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Mouden, Sip
 Phone: 5013748225
 Email: sbmouden@chc-ar.org
 Address 1: 420 W. 4th Street
 Address 2: Suite A
 Address 3:
 City: North Little Rock
 State: Arkansas
 Zip Code: 72114
 Organization: Community Health Centers of Arkansas
 Organization Type: Other



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Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: UNIVERSITY OF ARKANSAS SYSTEM	
Task: Submit Application - BTOP		Applicant Name: Ms. Suzanne E Alstadt	

Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
Name: Elphingstone, Nancy
Phone: 5013762273
Email: hcaaark@sbcglobal.net
Address 1: 411 South Victory Street
Address 2: Suite 204
Address 3:
City: Little Rock
State: Arkansas
Zip Code: 72201
Organization: HomeCare Association
Organization Type: Other
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
Name: Franklin, Ed
Phone: 5013710404
Email: efranklin@aatyc.org
Address 1: 1400 West Markham
Address 2: Suite 402
Address 3:
City: Little Rock
State: Arkansas
Zip Code: 72201
Organization: Arkansas Association of Two-Year Colleges
Organization Type: Other
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
Name: Christie, Pam
Phone: 5013727062
Email: pchristie@mhca.org
Address 1: 501 Woodlane Drive
Address 2: Suite 104
Address 3:
City: Little Rock
State: Arkansas



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<p>Zip Code: 72201 Organization: Mental Health Council Organization Type: Other Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Third party in-kind contributor Name: House, David Phone: 5012023000 Email: dhouse@baptist-health.org Address 1: 3333 Springhill Drive Address 2: Address 3: City: North Little Rock State: Arkansas Zip Code: 72117 Organization: Baptist Health Organization Type: Other Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Third party in-kind contributor Name: Cox, Matthew Phone: 5015523000 Email: mecox@stvincenthealth.com Address 1: 4 Hospital Drive Address 2: Address 3: City: Morrilton State: Arkansas Zip Code: 72110 Organization: St. Vincent Health Organization Type: Other Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Third party in-kind contributor Name: Altom, William Phone: 5016610720 Email: aaltom@methodistfamily.org Address 1: 1600 Aldersgate Road Address 2: Suite 200</p>



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Address 3:
 City: Little Rock
 State: Arkansas
 Zip Code: 72205
 Organization: Methodist Family Health
 Organization Type: Non-profit Corporation
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Bates, Jonathan
 Phone: 5013641100
 Email: batesjr@archildrens.org
 Address 1: 1 Children's Way
 Address 2:
 Address 3:
 City: Little Rock
 State: Arkansas
 Zip Code: 72202
 Organization: Arkansas Children's Hospital
 Organization Type: State or State Agency
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Flowers, Dan
 Phone: 5015692000
 Email: dan.flowers@arkansashighways.com
 Address 1: P.O. Box 2261
 Address 2:
 Address 3:
 City: Little Rock
 State: Arkansas
 Zip Code: 72203
 Organization: Arkansas State Highway Commission
 Organization Type: State or State Agency
 Small business: No
 Socially and economically disadvantaged small business concern: No

Description of the involvement of the partners listed above in the project.



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The project partners are vast, with each playing roles in the upgraded ATOM Network and AREON. Since the project will substantially upgrade broadband and equipment at 474 community anchor institutions, each location is considered a project partner. To streamline communication between the applicant and this significant number of entities, the key organizations of each individual community anchor institution location will act as the contact representing the interests of their related facilities. The roles, contributions, and potential benefits of each key organization for the ATOM Network and AREON are described below.

ATOM Network Key Organizations

The following organizations represent the interests of the 441 community anchor institutions of the ATOM Network. Organizations represented in the ATOM Board and Advisory Council are noted below, as they will contribute to the governance of the ATOM Network by making decisions and directing the proposed network.

*Arkansas Department of Health

ATOM Board & Advisory Council

Represents 116 county health units and bioterrorism network sites

Provided match

*Arkansas Hospital Association

ATOM Board & Advisory Council

Represents 105 hospitals

*Baptist Health Hospital

ATOM Board & Advisory Council

Represents 7 hospitals, 12 therapy centers, 3 home health sites, 16 clinics, and 1 medical education facility

Provided match

*University of Arkansas for Medical Sciences

ATOM Board & Advisory Council

Represents 18 Area Health Education Centers and Centers of Aging

Provided match

*Arkansas Department of Human Services

ATOM Advisory Council

Represents 6 human development centers

*Community Health Centers of Arkansas

ATOM Advisory Council

Represents 37 community health clinics



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Provided match

*Mental Health Council of Arkansas
ATOM Advisory Council

Represents 76 mental health clinics

*St. Vincent's Health System

ATOM Advisory Council

Represents 8 clinics, 2 hospitals, and 1 home health facility

Provided match

*Arkansas State Library

Represents 7 public libraries, 1 medical library

*HomeCare Association of Arkansas

Represents 24 home health agencies

Provided match

*Metropolitan Emergency Management System

Represents 1 ambulance company

*Arkansas Research and Education Optical Network (AREON)

ATOM Advisory Council

Provided match

*Arkansas Center for Health Improvement

ATOM Advisory Council

*Arkansas Department of Information Systems

ATOM Advisory Council

*Arkansas Foundation for Medical Care

ATOM Advisory Council

The ATOM Board approved pursuit of BTOP CCI funding, oversaw the creation of the proposal, provided revisions, conducted and completed needs assessments, and will continue activities in management of the proposed network during the proposal period, if funded. ATOM Board member, UAMS, will provide the administration of grant funding, centralized management of the proposed network, and all required training and deployment activities directly related to the substantial upgrade of the 441 ATOM Network sites. The ATOM Advisory Council will provide advice to the ATOM Board, completed needs assessments, had the opportunity to review this proposal, and will benefit from broadband connectivity and new equipment at some site locations.



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Some key organizations have provided individual Letters of Support from their community anchor institutions that are represented within the 441 ATOM Network community anchors.

- *Arkansas Aging Initiative
- *Arkansas Area Health Education Centers
- *Arkansas Children’s Hospital
- *Arkansas Northeastern College
- *Arkansas State University Beebe
- *Arkansas State University Mountain Home
- *Arkansas State University Newport
- *Arkansas Tech University
- *Black River Technical College
- *Cossatot Community College of the University of Arkansas
- *East Arkansas Community College
- *Methodist Family Health
- *National Park Community College
- *North Arkansas College
- *Northwest Arkansas Community College
- *Ouachita Technical College
- *Ozarka College
- *Phillips Community College
- *Pulaski Technical College
- *Rich Mountain Community College
- *South Arkansas Community College
- *Southeast Arkansas College
- *Southern Arkansas University Tech
- *University of Arkansas Community College - Batesville
- *University of Arkansas Community College – Hope
- *University of Arkansas System

AREON Key Organizations

The following key organizations represent entities currently connected or proposed for connection to the AREON fiber backbone. The organizations comprise the AREON Board of Directors, which share responsibility in overall strategy; the Management Council, which develops policy and recommendations for the Board; and the Steering Committee, which assists



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in network development, maintenance, and technology recommendations to the Management Council.

*Arkansas Association of Public Universities

Represents 11 four-year universities

Individual institutions serve on all governance organizations

*Arkansas Association of Two-Year Community Colleges

Represents 22 two-year colleges

Will serve on the Management Committee and Steering Committee

Provided match

*Arkansas Highway and Transportation Department/Commission

Provides highway right-of-way for fiber construction and current connectivity

Will serve on the Management Committee and Steering Committee

Provided match

Other Project Supporters

Several other key organizations do not represent community anchor institutions but will fill different roles in the planning, implementation, management, and deployment of the proposed network:

*Connect Arkansas

*Governor, Senators, and Congressmen

Arkansas Governor Mike Beebe, Senator Blanche Lincoln, Congressman Mike Ross, Congressman John Boozman, and Congressman Marion Berry.

*Windstream Communications (ISP)

Each of the ATOM Network and AREON key organizations, along with other supporters, has provided Letters of Support and/or Commitment, demonstrating a great level of community support.

D. Congressional Districts

Applicant Headquarters

- Arkansas

Project Service States



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Arkansas

Project Service Areas

Arkansas - 1

Arkansas - 2

Arkansas - 3

Arkansas - 4

Will any portion of your proposed project serve federally recognized tribal entities?

➤ No

Indicate each federally recognized tribal entity your proposed project will serve.

Have you consulted with each of the federally recognized tribal entities identified above?

➤ No

E. Service Area Details

Is the applicant seeking a waiver for providing less than 100% coverage of a service area?

➤ No

Project Details

Service Area Type:

Middle Mile

Service Area Name:

Alzheimer Middle Mile Service Area



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Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 1,192
Total Number of Households in Service Area: 394
Total Number of Businesses in Service Area: 18
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 12
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 17,872
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Amity Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Unserved

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 762
Total Number of Households in Service Area: 305
Total Number of Businesses in Service Area: 47
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 18
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 25,625
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile



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Service Area Name: Arkadelphia Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 10,912
Total Number of Households in Service Area: 3,865
Total Number of Businesses in Service Area: 452
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 32
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 25,671
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Ash Flat Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 6
Total Population in Proposed Service Area: 977
Total Number of Households in Service Area: 430
Total Number of Businesses in Service Area: 96
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 16,797



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Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Ashdown Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 4,781
Total Number of Households in Service Area: 1,880
Total Number of Businesses in Service Area: 146
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 23
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 26,754
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Augusta Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
--

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 2,665
Total Number of Households in Service Area: 1,070
Total Number of Businesses in Service Area: 64



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Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 14
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 21,500
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Batesville Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 11
Total Population in Proposed Service Area: 9,445
Total Number of Households in Service Area: 3,777
Total Number of Businesses in Service Area: 712
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 32
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 33,133
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Bearden Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;



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Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 1,125
Total Number of Households in Service Area: 443
Total Number of Businesses in Service Area: 38
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 15
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 26,420
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Beebe Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 4,930
Total Number of Households in Service Area: 1,930
Total Number of Businesses in Service Area: 214
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 18
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 35,252
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Berryville Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural



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Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 4,433
Total Number of Households in Service Area: 1,710
Total Number of Businesses in Service Area: 277
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 19
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 26,408
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Blytheville Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 21
Total Population in Proposed Service Area: 18,272
Total Number of Households in Service Area: 7,001
Total Number of Businesses in Service Area: 560
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 31
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 26,683
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



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Service Area Type: Middle Mile
Service Area Name: Booneville Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 4,117
Total Number of Households in Service Area: 1,619
Total Number of Businesses in Service Area: 141
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 14
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 26,627
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Brinkley Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 6
Total Population in Proposed Service Area: 3,940
Total Number of Households in Service Area: 1,543
Total Number of Businesses in Service Area: 137
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 19,868
Estimated Percentage of Households with Access to Broadband:



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Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Cabot Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 19
Total Population in Proposed Service Area: 15,261
Total Number of Households in Service Area: 5,432
Total Number of Businesses in Service Area: 619
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 31
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 49,389
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Calico Rock Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 991
Total Number of Households in Service Area: 428
Total Number of Businesses in Service Area: 42



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Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 23,299
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Camden-East Camden Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 17
Total Population in Proposed Service Area: 14,056
Total Number of Households in Service Area: 5,786
Total Number of Businesses in Service Area: 937
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 32
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 28,309
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Cave City Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 1,946
Total Number of Households in Service Area: 775



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Total Number of Businesses in Service Area: 50
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 23,163
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Cherokee Village Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 21
Total Population in Proposed Service Area: 4,648
Total Number of Households in Service Area: 2,182
Total Number of Businesses in Service Area: 61
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 18
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 27,997
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Clarendon Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 1,960



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Total Number of Households in Service Area: 814
Total Number of Businesses in Service Area: 43
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 17
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 22,927
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Clarksville Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 19
Total Population in Proposed Service Area: 7,719
Total Number of Households in Service Area: 2,960
Total Number of Businesses in Service Area: 317
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 21
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 24,548
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Clinton Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No more than 50% of the households in the proposed funded service area have access to facilities-based, terrestrial broadband service at greater than the minimum broadband transmission speed;



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Total Square Miles in Service Area: 12
Total Population in Proposed Service Area: 2,283
Total Number of Households in Service Area: 1,007
Total Number of Businesses in Service Area: 206
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 17
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 22,206
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Conway Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 35
Total Population in Proposed Service Area: 43,167
Total Number of Households in Service Area: 16,039
Total Number of Businesses in Service Area: 1,833
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 52
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 37,063
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Corning Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served



**Broadband Infrastructure Application
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If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 3,679
Total Number of Households in Service Area: 1,553
Total Number of Businesses in Service Area: 104
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 21,200
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Crossett Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 6
Total Population in Proposed Service Area: 6,097
Total Number of Households in Service Area: 2,418
Total Number of Businesses in Service Area: 289
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 20
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 35,442
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



**Broadband Infrastructure Application
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Service Area Type: Middle Mile
Service Area Name: Danville Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 2,392
Total Number of Households in Service Area: 716
Total Number of Businesses in Service Area: 100
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 15
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 26,506
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Deer Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Unserved

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 931
Total Number of Households in Service Area: 378
Total Number of Businesses in Service Area: 7
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 8
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 25,952
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



**Broadband Infrastructure Application
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Service Area Type: Middle Mile
Service Area Name: De Queen Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 6
Total Population in Proposed Service Area: 5,765
Total Number of Households in Service Area: 1,913
Total Number of Businesses in Service Area: 225
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 19
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 25,707
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Dermott Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 3,292
Total Number of Households in Service Area: 1,216
Total Number of Businesses in Service Area: 51
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 12



Broadband Infrastructure Application
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Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 17,857
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Des Arc Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 3,552
Total Number of Households in Service Area: 1,419
Total Number of Businesses in Service Area: 151
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 22,545
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Dumas Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 5,238
Total Number of Households in Service Area: 1,977
Total Number of Businesses in Service Area: 197



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Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 19
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 25,754
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Earle Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 3,036
Total Number of Households in Service Area: 1,074
Total Number of Businesses in Service Area: 33
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 15
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 20,344
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: El Dorado Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
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Total Square Miles in Service Area: 16
Total Population in Proposed Service Area: 21,530
Total Number of Households in Service Area: 8,686
Total Number of Businesses in Service Area: 1,019
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 31
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 27,045
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: England Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 2,972
Total Number of Households in Service Area: 1,183
Total Number of Businesses in Service Area: 83
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 12
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 28,516
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Eudora Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Unserved

If Service Status is "Underserved" please select at least one applicable option from this list.



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Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 2,819
Total Number of Households in Service Area: 1,047
Total Number of Businesses in Service Area: 50
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 17
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 17,857
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Eureka Springs Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 2,278
Total Number of Households in Service Area: 1,119
Total Number of Businesses in Service Area: 391
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 25,547
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Fairfield Bay Middle Mile Service Area



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Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 15
Total Population in Proposed Service Area: 2,460
Total Number of Households in Service Area: 1,231
Total Number of Businesses in Service Area: 46
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 15
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 35,089
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Fordyce Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 4,799
Total Number of Households in Service Area: 1,737
Total Number of Businesses in Service Area: 204
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 18
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 23,297
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



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Service Area Type: Middle Mile
Service Area Name: Forrest City Metro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 18
Total Population in Proposed Service Area: 15,761
Total Number of Households in Service Area: 4,939
Total Number of Businesses in Service Area: 399
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 30
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 19,406
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Green Forest Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 6
Total Population in Proposed Service Area: 2,717
Total Number of Households in Service Area: 964
Total Number of Businesses in Service Area: 91



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Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 13
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 23,750
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Greenbrier Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 8
Total Population in Proposed Service Area: 3,042
Total Number of Households in Service Area: 1,137
Total Number of Businesses in Service Area: 243
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 24
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 37,351
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Greers Ferry Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 930
Total Number of Households in Service Area: 398



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Total Number of Businesses in Service Area: 81
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 19
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 30,238
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Hamburg Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 3,039
Total Number of Households in Service Area: 1,158
Total Number of Businesses in Service Area: 143
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 21
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 26,189
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Hampton Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
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No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 1,579
Total Number of Households in Service Area: 619
Total Number of Businesses in Service Area: 63
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 19
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 25,057
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Harrisburg Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 2,192
Total Number of Households in Service Area: 855
Total Number of Businesses in Service Area: 95
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 17
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 22,862
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



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Service Area Type: Middle Mile
Service Area Name: Harrison Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 10
Total Population in Proposed Service Area: 12,152
Total Number of Households in Service Area: 5,259
Total Number of Businesses in Service Area: 831
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 31
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 27,850
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Hazen Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 1,637
Total Number of Households in Service Area: 658
Total Number of Businesses in Service Area: 74
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 13
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 29,800
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



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Service Area Type: Middle Mile
Service Area Name: Heber Springs Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 6,432
Total Number of Households in Service Area: 2,793
Total Number of Businesses in Service Area: 408
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 22
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 29,599
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Helena-West Helena Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 9
Total Population in Proposed Service Area: 6,323
Total Number of Households in Service Area: 2,312
Total Number of Businesses in Service Area: 179
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 32
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 18,662



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Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Hope Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 10
Total Population in Proposed Service Area: 10,616
Total Number of Households in Service Area: 3,961
Total Number of Businesses in Service Area: 392
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 26
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 25,385
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Hot Springs Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 33
Total Population in Proposed Service Area: 35,750
Total Number of Households in Service Area: 16,096
Total Number of Businesses in Service Area: 2,760
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 36
Unemployment Rate in the Service Area: 3



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Median Income in the Service Area: 26,040
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Hughes Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 1,867
Total Number of Households in Service Area: 682
Total Number of Businesses in Service Area: 29
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 14
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 18,333
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Huntsville Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 1,931
Total Number of Households in Service Area: 761



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 2:34:28 PM	Easygrants ID: 4493
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: UNIVERSITY OF ARKANSAS SYSTEM
Task: Submit Application - BTOP	Applicant Name: Ms. Suzanne E Alstadt

Total Number of Businesses in Service Area: 156
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 25,288
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Jasper Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No more than 50% of the households in the proposed funded service area have access to facilities-based, terrestrial broadband service at greater than the minimum broadband transmission speed;

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 498
Total Number of Households in Service Area: 231
Total Number of Businesses in Service Area: 50
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 9
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 13,456
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Jonesboro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
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**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

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Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: UNIVERSITY OF ARKANSAS SYSTEM	
Task: Submit Application - BTOP		Applicant Name: Ms. Suzanne E Alstadt	

Total Square Miles in Service Area: 80
Total Population in Proposed Service Area: 55,515
Total Number of Households in Service Area: 22,219
Total Number of Businesses in Service Area: 2,248
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 37
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 32,196
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Lake Village Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Unserved

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 2,823
Total Number of Households in Service Area: 1,090
Total Number of Businesses in Service Area: 145
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 19
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 20,625
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Lepanto Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved



**Broadband Infrastructure Application
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Task: Submit Application - BTOP		Applicant Name: Ms. Suzanne E Alstadt	

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 2,133
Total Number of Households in Service Area: 851
Total Number of Businesses in Service Area: 36
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 10
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 22,599
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Lewisville Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No more than 50% of the households in the proposed funded service area have access to facilities-based, terrestrial broadband service at greater than the minimum broadband transmission speed;

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 1,285
Total Number of Households in Service Area: 518
Total Number of Businesses in Service Area: 39
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 18
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 26,719
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



**Broadband Infrastructure Application
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Service Area Type: Middle Mile
Service Area Name: Lonoke Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 5
Total Population in Proposed Service Area: 4,287
Total Number of Households in Service Area: 1,595
Total Number of Businesses in Service Area: 193
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 33
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 31,558
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Magnolia Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 9
Total Population in Proposed Service Area: 10,858
Total Number of Households in Service Area: 4,204
Total Number of Businesses in Service Area: 527
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 29
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 26,011
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



**Broadband Infrastructure Application
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Service Area Type: Middle Mile
Service Area Name: Malvern Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 9,021
Total Number of Households in Service Area: 3,769
Total Number of Businesses in Service Area: 420
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 24
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 27,007
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Marianna Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 5,181
Total Number of Households in Service Area: 1,955
Total Number of Businesses in Service Area: 120
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 21
Unemployment Rate in the Service Area: 9



**Broadband Infrastructure Application
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Task: Submit Application - BTOP	Applicant Name: Ms. Suzanne E Alstadt

Median Income in the Service Area: 17,643
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Marked Tree Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 2,800
Total Number of Households in Service Area: 1,126
Total Number of Businesses in Service Area: 64
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 11
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 22,591
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Marshall Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 1,313
Total Number of Households in Service Area: 594



**Broadband Infrastructure Application
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Total Number of Businesses in Service Area: 89
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 18,846
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Mayflower Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 1,631
Total Number of Households in Service Area: 740
Total Number of Businesses in Service Area: 76
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 13
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 35,469
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: McGehee Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Unserved

If Service Status is "Underserved" please select at least one applicable option from this list.
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**Broadband Infrastructure Application
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Total Square Miles in Service Area: 6
Total Population in Proposed Service Area: 4,570
Total Number of Households in Service Area: 1,836
Total Number of Businesses in Service Area: 162
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 14
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 21,909
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Melbourne Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 6
Total Population in Proposed Service Area: 1,673
Total Number of Households in Service Area: 736
Total Number of Businesses in Service Area: 93
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 17
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 22,757
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Mena Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved



**Broadband Infrastructure Application
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If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 5,637
Total Number of Households in Service Area: 2,431
Total Number of Businesses in Service Area: 438
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 13
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 22,671
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Monticello Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 11
Total Population in Proposed Service Area: 9,146
Total Number of Households in Service Area: 3,592
Total Number of Businesses in Service Area: 395
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 27
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 26,821
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



**Broadband Infrastructure Application
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Service Area Type: Middle Mile
Service Area Name: Morrilton Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 9
Total Population in Proposed Service Area: 6,550
Total Number of Households in Service Area: 2,645
Total Number of Businesses in Service Area: 335
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 23
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 28,007
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Mountain Home Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
 No more than 50% of the households in the proposed funded service area have access to facilities-based, terrestrial broadband service at greater than the minimum broadband transmission speed;

Total Square Miles in Service Area: 11
Total Population in Proposed Service Area: 11,012
Total Number of Households in Service Area: 5,175
Total Number of Businesses in Service Area: 985



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Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 37
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 26,869
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Mountain View Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 2,876
Total Number of Households in Service Area: 1,287
Total Number of Businesses in Service Area: 224
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 19,302
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Mount Ida Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Unserved

If Service Status is "Underserved" please select at least one applicable option from this list.
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**Broadband Infrastructure Application
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Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 981
Total Number of Households in Service Area: 412
Total Number of Businesses in Service Area: 102
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 15
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 21,438
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Murfreesboro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 1,764
Total Number of Households in Service Area: 732
Total Number of Businesses in Service Area: 56
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 26,806
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Nashville Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.



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No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 5
Total Population in Proposed Service Area: 4,878
Total Number of Households in Service Area: 1,857
Total Number of Businesses in Service Area: 237
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 24
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 23,480
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Newport Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 13
Total Population in Proposed Service Area: 7,811
Total Number of Households in Service Area: 2,690
Total Number of Businesses in Service Area: 303
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 45
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 24,151
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



**Broadband Infrastructure Application
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Service Area Type: Middle Mile
Service Area Name: Osceola Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 8
Total Population in Proposed Service Area: 8,875
Total Number of Households in Service Area: 3,183
Total Number of Businesses in Service Area: 175
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 13
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 23,163
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Ozark Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 3,525
Total Number of Households in Service Area: 1,453
Total Number of Businesses in Service Area: 183
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 19
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 26,057
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



**Broadband Infrastructure Application
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Service Area Type: Middle Mile
Service Area Name: Paragould Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 31
Total Population in Proposed Service Area: 22,017
Total Number of Households in Service Area: 8,941
Total Number of Businesses in Service Area: 775
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 30,815
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Paris Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 5
Total Population in Proposed Service Area: 3,707
Total Number of Households in Service Area: 1,553
Total Number of Businesses in Service Area: 175
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 15
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 25,424



Broadband Infrastructure Application
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Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Perryville Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 5
Total Population in Proposed Service Area: 1,458
Total Number of Households in Service Area: 568
Total Number of Businesses in Service Area: 74
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 9
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 29,596
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Piggott Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 5
Total Population in Proposed Service Area: 3,894
Total Number of Households in Service Area: 1,726
Total Number of Businesses in Service Area: 114
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 11
Unemployment Rate in the Service Area: 3



**Broadband Infrastructure Application
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Median Income in the Service Area: 25,404
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Pocahontas Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 8
Total Population in Proposed Service Area: 6,518
Total Number of Households in Service Area: 2,693
Total Number of Businesses in Service Area: 286
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 36
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 24,450
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Portland Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 552
Total Number of Households in Service Area: 213
Total Number of Businesses in Service Area: 19
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 9



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Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 28,036
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Prescott Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 7
Total Population in Proposed Service Area: 3,686
Total Number of Households in Service Area: 1,421
Total Number of Businesses in Service Area: 120
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 12
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 21,612
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Ratcliff Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 191
Total Number of Households in Service Area: 76
Total Number of Businesses in Service Area: 30



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Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 8
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 23,000
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Redfield Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 1,157
Total Number of Households in Service Area: 453
Total Number of Businesses in Service Area: 43
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 11
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 36,302
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Rison Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;



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Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 1,271
Total Number of Households in Service Area: 471
Total Number of Businesses in Service Area: 58
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 15
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 20,865
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Salem Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 1,591
Total Number of Households in Service Area: 679
Total Number of Businesses in Service Area: 94
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 18
Unemployment Rate in the Service Area: 1
Median Income in the Service Area: 20,714
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Searcy Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.



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Total Square Miles in Service Area: 15
Total Population in Proposed Service Area: 18,928
Total Number of Households in Service Area: 6,822
Total Number of Businesses in Service Area: 989
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 38
Unemployment Rate in the Service Area: 14
Median Income in the Service Area: 32,321
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Sheridan Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 3,872
Total Number of Households in Service Area: 1,509
Total Number of Businesses in Service Area: 219
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 20
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 37,207
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Star City Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served



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If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 4
Total Population in Proposed Service Area: 2,471
Total Number of Households in Service Area: 875
Total Number of Businesses in Service Area: 142
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 18
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 32,197
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Strawberry Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 283
Total Number of Households in Service Area: 112
Total Number of Businesses in Service Area: 10
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 8
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 23,438
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile



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Service Area Name: Strong Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 651
Total Number of Households in Service Area: 256
Total Number of Businesses in Service Area: 37
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 13
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 21,389
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Stuttgart Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 6
Total Population in Proposed Service Area: 9,745
Total Number of Households in Service Area: 2,552
Total Number of Businesses in Service Area: 365
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 24
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 31,664
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



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Service Area Type: Middle Mile
Service Area Name: Texarkana Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 32
Total Population in Proposed Service Area: 26,448
Total Number of Households in Service Area: 10,384
Total Number of Businesses in Service Area: 663
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 29
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 31,343
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Trumann Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 5
Total Population in Proposed Service Area: 6,889
Total Number of Households in Service Area: 2,734
Total Number of Businesses in Service Area: 140
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 23
Unemployment Rate in the Service Area: 5



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Median Income in the Service Area: 26,533
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Wabash Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 361
Total Number of Households in Service Area: 131
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 24,167
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Waldron Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 5
Total Population in Proposed Service Area: 3,508
Total Number of Households in Service Area: 1,430



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Total Number of Businesses in Service Area: 134
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 13
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 21,921
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Walnut Ridge Metro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 16
Total Population in Proposed Service Area: 7,742
Total Number of Households in Service Area: 3,173
Total Number of Businesses in Service Area: 226
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 23
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 26,840
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Warren Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Unserved

If Service Status is "Underserved" please select at least one applicable option from this list.
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Total Square Miles in Service Area: 10
Total Population in Proposed Service Area: 6,442
Total Number of Households in Service Area: 2,569
Total Number of Businesses in Service Area: 259
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 20
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 22,162
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: West Memphis Metro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 40
Total Population in Proposed Service Area: 36,567
Total Number of Households in Service Area: 13,755
Total Number of Businesses in Service Area: 850
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 96
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 35,742
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Wilmot Middle Mile Service Area



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Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 786
Total Number of Households in Service Area: 290
Total Number of Businesses in Service Area: 9
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 7
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 14,167
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Wynne Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.

No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 8
Total Population in Proposed Service Area: 8,615
Total Number of Households in Service Area: 2,032
Total Number of Businesses in Service Area: 350
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 26
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 30,125
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



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Service Area Type: Middle Mile
Service Area Name: Yellville Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No more than 50% of the households in the proposed funded service area have access to facilities-based, terrestrial broadband service at greater than the minimum broadband transmission speed;

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 1,312
Total Number of Households in Service Area: 535
Total Number of Businesses in Service Area: 82
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 19
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 26,250
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Fort Smith Metro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 71
Total Population in Proposed Service Area: 100,351
Total Number of Households in Service Area: 39,785
Total Number of Businesses in Service Area: 3,940
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 86
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 30,901



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Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Little Rock Metro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 243
Total Population in Proposed Service Area: 338,600
Total Number of Households in Service Area: 139,560
Total Number of Businesses in Service Area: 15,577
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 578
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 39,288
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Russellville Metro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 29
Total Population in Proposed Service Area: 27,910
Total Number of Households in Service Area: 10,846
Total Number of Businesses in Service Area: 1,429
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 50
Unemployment Rate in the Service Area: 4



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Median Income in the Service Area: 28,250
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Elaine Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list. No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 865
Total Number of Households in Service Area: 330
Total Number of Businesses in Service Area: 19
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 11
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 19,479
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Horseshoe Bend Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.
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Total Square Miles in Service Area: 15
Total Population in Proposed Service Area: 2,278
Total Number of Households in Service Area: 1,142



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Total Number of Businesses in Service Area: 51
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 12
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 26,714
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Pine Bluff Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 47
Total Population in Proposed Service Area: 55,085
Total Number of Households in Service Area: 19,956
Total Number of Businesses in Service Area: 1,485
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 51
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 27,247
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Pleasant Plains Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 267



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Total Number of Households in Service Area: 106
Total Number of Businesses in Service Area: 21
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 8
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 22,188
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Fayetteville Metro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 79
Total Population in Proposed Service Area: 106,164
Total Number of Households in Service Area: 40,875
Total Number of Businesses in Service Area: 4,721
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 133
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 37,543
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Bentonville Metro Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Non-Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 61



**Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program**

Submitted Date: 3/26/2010 2:34:28 PM	Easygrants ID: 4493
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: UNIVERSITY OF ARKANSAS SYSTEM
Task: Submit Application - BTOP	Applicant Name: Ms. Suzanne E Alstadt

Total Population in Proposed Service Area: 63,572
Total Number of Households in Service Area: 23,377
Total Number of Businesses in Service Area: 3,860
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 109
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 39,046
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Drasco Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved

If Service Status is "Underserved" please select at least one applicable option from this list.
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 1,858
Total Number of Households in Service Area: 774
Total Number of Businesses in Service Area: 19
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 7
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 30,625
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Gravette Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Underserved



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If Service Status is "Underserved" please select at least one applicable option from this list.
No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 1,810
Total Number of Households in Service Area: 697
Total Number of Businesses in Service Area: 114
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 27
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 29,881
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: Siloam Springs Middle Mile Service Area
Rural Classification of the Last Mile Service Area: Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 11
Total Population in Proposed Service Area: 10,843
Total Number of Households in Service Area: 3,894
Total Number of Businesses in Service Area: 478
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 35
Unemployment Rate in the Service Area: 3
Median Income in the Service Area: 34,513
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



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Service Area Type: Middle Mile
Service Area Name: Mansfield Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 2
Total Population in Proposed Service Area: 1,097
Total Number of Households in Service Area: 440
Total Number of Businesses in Service Area: 35
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 9
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 26,938
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:

Service Area Type: Middle Mile
Service Area Name: De Witt Middle Mile Service Area
Rural Classification of the Last Mile Service Area:Rural
Service Status of the Last Mile Service Area: Served

If Service Status is "Underserved" please select at least one applicable option from this list.

Total Square Miles in Service Area: 3
Total Population in Proposed Service Area: 3,552
Total Number of Households in Service Area: 1,419
Total Number of Businesses in Service Area: 151
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 4
Median Income in the Service Area: 22,545
Estimated Percentage of Households with Access to Broadband:
Estimated Percentage of Households Subscribing to Broadband:



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F. Community Anchor Summary

Community Anchor Summary	
Schools (k-12)	0
Libraries	8
Medical and Healthcare Providers	423
Public Safety Entities	1
Community Colleges	22
Public Housing	0
Other Institutions of Higher Education	14
Other Community Support Organization	0
Other Government Facilities	6
TOTAL COMMUNITY ANCHOR INSTITUTIONS	474
Historically Black colleges and Universities	0
Tribal Colleges and Universities	0
Alaska Native Serving Institutions	0
Hispanic Serving Institutions	0
Native Hawaiian Serving Institutions	0
TOTAL MINORITY	0



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SERVING INSTITUTIONS	
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G. Project Benefits

Demographics

Jobs	
How many direct jobs-years will be created from this project?	66
How many indirect jobs will be created from this project?	647
How many jobs will be induced from this project?	401

Methodology used to estimate jobs:

With the advent of the American Recovery and Reinvestment Act, a necessity arose to quantify jobs created as a direct result of stimulus money. The federal government created figures for job years, or one job for one year, based on the stimulus money provided. According to the Council of Economic Advisors, three types of jobs can be determined from the federal method of calculation: direct jobs, indirect jobs, and induced jobs.

To determine total job-years for a project, the money requested is divided by \$92,136, as directed by the Council of Economic Advisors. Thirty-six percent of this total provides the number of induced jobs, and 64% of the total provides the number of direct and indirect jobs.

The project has employed the same method for estimating the job-years created, which resulted in the following projections:

- *1,110.5 total job-years created
- *399.78 job-years (36% of the total) are from induced effects
- *66 job-years are from direct jobs (based on 25 FTE's in the budget narrative for the 8 years of revenue and cost projection)
- *644.72 job-years are from indirect jobs (the amount required to bring the total direct/indirect job years to 64% of the total, as prescribed by the calculations)

Project Impact:

The following key points highlight how the project will impact the entire state of Arkansas.

- 1) The funded project will directly connect 474 community anchor institutions.



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- 2) The completed network could reach 3,926 additional community anchor institutions as potential customers, detailed below.
- 3) Each of the 474 community anchor institutions (100%) have expressed interest in subscribing to the integrated network. Key organizations representing the 474 community anchor institutions have provided Letters of Support.

The purpose of the connections is to facilitate enhanced broadband services and applications at community anchor institutions, so end users and surrounding communities may reap the benefits. Substantially upgraded bandwidth and broadband equipment will enable community anchor institutions to facilitate the following enhanced broadband services and applications:

Clinical Consultations

- *Healthcare entities can collaborate to offer new services to their patients by conducting clinical consultations through interactive video, leveraging the expertise of specialists available through the ATOM Network sites.
- *Healthcare entities can support public safety entities by offering interactive video access to trauma, burn, cardiology, stroke, and other specialists found at the ATOM Network sites.
- *Healthcare entities may offer student healthcare and consultation at student health clinics at AREON fiber-connected higher education institutions.

Distance Education

- *Higher education institutions can collaborate to offer new courses to their students by sharing online courses and distance education through interactive video, leveraging educational resources available through AREON.
- *Healthcare entities in the upgraded ATOM Network can support higher education institutions connected to AREON by extending new medical education opportunities and coursework in interactive video and online courses to students, promoting the growth of healthcare professionals in Arkansas.
- *Public safety entities in the upgraded ATOM Network can support higher education institutions connected to AREON by offering distance education in CPR, emergency response, campus safety, and other first responder topics.

Research

- *Public libraries in the upgraded ATOM Network can offer their consumers new opportunities to participate in interactive video healthcare and academic education and research, tutoring, online



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courses, support groups, and other broadband-enabled resources available through the upgraded ATOM Network and AREON universities and two-year colleges.

*Research efforts can unite all the integrated network partners by providing new, collaborative opportunities to conduct and participate in clinical trials; recruit diverse study participants, including health disparate, rural, and Mississippi Delta residents; and conduct studies through interactive video, online study participant communication, and other broadband applications.

Virtual Communication

* Virtual communication can unite all the integrated network partners by providing the capability to stream interactive video teleconferences at each site, allowing discussion of any topic at any time.

*Public safety entities, including the state’s bioterrorism, trauma, and ambulance networks, can seamlessly communicate over interactive video with other ATOM Network sites, providing a rapid response to public safety events.

For the purpose of this proposal, the “end user” is defined as the consumer who either visits or works at the 474 integrated network community anchor institutions.

End users who visit the 474 community anchor institutions will gain the abilities to:

*Receive distance education and online courses from the state’s two-year colleges, four-year universities, and partnering public libraries.

*Participate through interactive video in two-year college consortia groups focused on workforce training, allied health, Delta training and education, aerospace training, entrepreneurship training, and green manufacturing.

*Visit with distant doctors and specialists for clinical consultations through interactive video

*Share X-rays, CT scans, and other medical imaging with medical facilities, eliminating the need to repeat imaging at new medical facilities

*Share medical histories, lab results, and other medical information with medical facilities, eliminating the need to repeat histories and tests at new medical facilities

*Receive specialty medical diagnoses and recommendations for care in ambulances while in emergency transit

*Access public computers that reach the public Internet at their local community anchor institutions

* Participate in research studies and clinical trials through interactive video.



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*Receive rapid notification and warnings of traumatic, bioterrorist, natural disaster, or other public events that threaten personal safety

End users who work for 474 community anchor institutions will gain the abilities to:

- *Offer consumers all the benefits listed above
- *Promote new and enhanced clinical services by connecting to specialists through interactive video
- *Share patient imaging and records with other network sites
- *Bill insurance companies for reimbursable services offered over interactive video
- *Offer consumers publicly accessible computers with access to the public Internet
- *Participate in continuing education and distance education as delivered through interactive video and online courses
- *Conduct and collaborate in research studies and clinical trials, enabling study participant virtual recruitment, study, and follow-up and access to study participants from certain geographic locations (e.g. rural, Delta, etc.) or who share common characteristics (e.g. mental health, chronic disease, etc.)
- *Rapidly communicate to other network sites in traumatic, bioterrorist, natural disaster, or other public events that threaten the safety of individuals and their communities

Arkansas' communities will gain the abilities to:

- *Create new job opportunities for residents through direct, indirect, and induced jobs
- *Bolster the economy in their local communities by offering access to new and enhanced broadband applications delivered at community anchor institutions. For example, a patient who would normally travel to a distant hospital for specialty care could benefit from seeking the same specialty care through interactive video at the community hospital. This patient, otherwise, would lose days at work and dedicate any remaining expendable income on travel needs including gasoline, hotels, and meals within other communities, drawing money away from the local economy. Moreover, the local hospital, clinic, etc. loses the business of that patient.
- *Attract new residents by promoting new broadband resources at local community anchor institutions. For example, a two-year college could attract more residents by promoting new applications like distance education and online education possibilities that help students enrich their educational experience.

The 474 community anchor institutions represented in the project are primarily non-profit businesses. The integrated network holds the potential for expansion to other community anchor



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institutions in Arkansas, including 1,072 K-12 public schools, 29 charter schools, 305 private schools, 412 long-term care facilities, 758 provider clinics, 231 public libraries, 203 licensed ambulance services, 264 police departments, 575 fire departments, and 77 offices of emergency management. Partnership in the integrated network will extend all the benefits discussed above.

The project will extend increased business opportunities to third-party ISPs that seek to provide broadband services to the proposed funded service area through a competitive bid process. The following ISPs have explicitly expressed interest in the integrated network.

- *AT&T
- *Windstream
- *Rural Telecom Services
- *Century Link
- *Ritter Communications
- *CT&T
- *Kaleidoscope Foundation

These ISP discussions were held in a meeting, without any formal declaration of intent. However, the Broadband Commission of Arkansas, with members of AT&T, South Arkansas Telephone Company, Suddenlink, Rural Telecom Solutions, Verizon, and Cox Cable, has provided a Letter of Support.

This project truly impacts the entire state of Arkansas, its citizens, businesses, and communities, with the 474 proposed connections this project will serve 2,855,390 Arkansans, the entire state population. With increased bandwidth and/or equipment in every county in Arkansas at a comprehensive range of community anchor institutions, every resident in Arkansas will be served through the proposed connections. The project will benefit residents in their daily lives, from their local hospital, public library, two-year college, ambulance service, community health clinic, mental health clinic, and any institutions found in the integrated network.

Vulnerable Populations:

The project's proposed funded service area represents a number of vulnerable populations. Since the proposed funded service area exclusively lies within the boundaries of Arkansas, statistics on vulnerable populations are presented on the state level. Several vulnerable populations are prevalent in Arkansas, including:



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*Low income: 15.3 % in Arkansas compared to 13.2% in the U.S.

*Elderly: 14.3% in Arkansas compared to 12.8% in the U.S.

*Children (under 18): 24.6% in Arkansas compared to 24.3% in the U.S.

*Disabled: 17.4% in Arkansas compared to 12.1% in the U.S.

In addition, the U.S. Department of Health and Human Services analyzed five vulnerable population indicators to determine community health statuses for Arkansas, finding the state had higher or equal percentages than the national average in four of those five indicators: no high school diploma, severe work disability, major depression, and recent drug use.

*No high school diploma: 24.7% Arkansas; 19.6% U.S.

*Severe work disability (per 1000 people): 111.7 Arkansas; 81.5 U.S.

*Major depression (age 18 or older having at least one depressive episode in 2005): 8.39% Arkansas; 7.65% U.S.

*Recent drug use (12 and older using illicit drugs in the past month): 6.69% Arkansas; 6.69% U.S.

Additionally, more than half of the counties comprising the proposed funded service area reside in the Mississippi Delta, the most distressed area of the nation. The Mississippi Delta, as defined by the Delta Regional Authority (DRA), is notably less populated, less educated, and less affluent than the rest of the nation. More than half of the proposed funded service area belongs to the Delta, an area marked by the following demographics:

*Population per square mile: 65.8% Delta; 82.8% U.S.

*Per capita income: \$25,426 Delta; \$31,472 U.S.

*Minorities as a percent of the total population: 34.2% Delta; 18.8% U.S.

*Percent of population age 65 or older: 12.7% Delta; 12% U.S.

*Percent of population with bachelor's degree: 17.2% Delta; 23.4% U.S.

The 42 Delta counties in the proposed funded service area lack universally accessible high-speed Internet service – more than 15% of DRA zip codes do not have a high-speed Internet service provider compared to 10% of non-DRA zip codes. Even when services are available, the lack of competing service providers and lower per capita incomes make the cost of broadband a major barrier. Making broadband available at community anchor institutions is essential to overcoming such barriers.

Level of Need:



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The 474 community anchor institutions comprising the upgraded ATOM Network and AREON exhibit a high degree of need for the substantially upgraded bandwidth and equipment, as documented through needs assessments and responses from partners regarding their limitations in broadband service and applications. As gathered from this needs assessment, the following comments exemplify common problems with the current bandwidth and equipment available to the community anchor institutions.

*A proposed primary hub location with a current 10 Mbps download-speed and serving 36,184 consumers with clinical services and health education stated it was suffering, “loss of connection or distortion due to bandwidth connections...[forcing users to] travel to another location or facility to use video conferencing equipment.” This hub location remarked the integrated network could help them “expand...faculty and student population ...[which] will require a significant increase in floor space, networking equipment, end user equipment, and more bandwidth.” This location will receive a 100 Mbps upgrade.

Other primary hub locations noted the following broadband limitations:

“Poor screen resolution and jittery video, dropped connections, inability to connect to remote site for teleconferences.”

“Current interactive video conferences must run at low speeds due to limited internet connectivity.”

“Temporary loss of service has affected our ability to care for patients to our best ability.”

“Teleconferences have been lost or lowered in quality due to service loss or overload.”

*A proposed secondary spoke location with a current 2.1 Mbps download-speed and serving 5,000 consumers through regional hospital services stated: “Consistently, we have VPN [virtual private network] drops to our remote clinics and to our remote radiology reading site.” Further, this same location noted the integrated network would enable them to “upload patient information to each other through the network without having specific VPN connectivity to each site, [which would] greatly simplify the communications required by ARRA. We could also have enough bandwidth to supply to remote access for patient and physician portals. We could also open the proxy for video transmissions, which we currently have to block because of bandwidth availability.” This location will receive a 20 Mbps upgrade.

Other secondary spokes noted the following broadband limitations:



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“Slow EMR [electronic medical records] response to rural clinics from [hospitals] due to limited rural clinic broadband bandwidth.”

“We try to keep it [distance education] to a minimum to give more bandwidth to daily operations (remote electronic health records).”

“Unable to provide patient healthcare education services (videos, etc.) at rural clinics due to limited broadband availability at rural clinics.”

*A proposed tertiary spoke location with a current 456-kbps download speed and serving 2,600 consumers through mental health counseling stated: “[Our institution suffers the] inability to access live conferences, webinars, training (streaming), [due to] not enough download/upload speed for multiple users to access at any given time.” The same tertiary spoke location remarked that the integrated network will provide “valuable networking for the professional staff, and this would function as a secondary gain for consumers.” This location will receive a 1.5 Mbps upgrade.

Other tertiary locations noted the following broadband limitations:

“When streaming video the frames delivered are extremely choppy, locks up consistently, etc.”

“It is also reassuring to know that [through the integrated network] we can be connected/interconnected to the majority of major Hospitals throughout the State of Arkansas, for disaster drills, administrative meetings, etc.”

Across all community anchor institutions polled, one resounding barrier to improved broadband services was identified by respondents: available funding. Nearly half (47%) of all respondents identified this shortcoming. Other specified barriers included staff awareness of benefits of broadband, staff willingness to participate in new broadband applications, and the lack of broadband-enabled healthcare training. The project will provide the bandwidth, equipment, and deployment support needed to help overcome these identified barriers among Arkansas’ community anchor institutions.

The proposed funded service area is home to an estimated 62 Internet Service Providers (ISPs), each of which provides services to portions of Arkansas; however, no ISP provides services to the whole of the proposed funded service area. Connect Arkansas, the state’s designated broadband mapping agency, recently completed a study of the ISP coverage areas in Arkansas, revealing refined details regarding the current broadband infrastructure in the proposed funded



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service area, as depicted on the provided maps of the underserved /unserved areas, which cover 40% and 6% respectively of the proposed funded service area.

Many of the ISPs serving Arkansas offer comparable services as those proposed within the project, and the project will contract with ISPs to provide the broadband services needed at reasonable costs. Therefore, ISPs in the proposed funded service area have the capabilities to offer greater bandwidth speeds to community anchor institutions, but to date, there has been a failure in providing affordable, high-bandwidth services to community anchors at prices that these institutions can afford on a recurring basis. Existing comparable services are, more than often, outside the budgets of the community anchor sites, most of which are non-profits, making increased bandwidth offered at the retail price a difficult cost to assume. To help drive prices down and make broadband access more affordably sustainable after the BTOP CCI project period, a competitive bid process will invite ISPs to compete for the business of the community anchor institutions that comprise the integrated network. The project will utilize the services of ISPs to deploy a leased circuit design that increases bandwidth and integrates the ATOM Network with AREON. A number of ISPs will be employed to reach all the geographically dispersed ATOM Network sites within the proposed funded service area. As such, the project will allow ISPs to compete through a bid process to reach the community anchor institutions, cultivating a rich competitive landscape where ISPs plan connectivity with special consideration to costs and efficiency.

As such, the project will not compete for Internet services offered by ISPs serving the state. Instead, the project will create the infrastructure and provide the centralized project management necessary to make such a vast community anchor institution integrated network possible within the timeframe of the grant period. ISPs will compete through a bid process to offer increased bandwidth to the middle mile service areas comprising the proposed funded service area, giving an opportunity for multiple ISPs to gain new customers and income. In effect, the following added benefits will be afforded to the 474 community anchor institutions and any future expansions of the integrated network:

- *Broadband affordability to community anchor institutions
- *New opportunities for income to ISPs
- *Centralized project management for the entire integrated network during the project period



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These added values come in addition to the near limitless benefits community anchor institutions themselves have recognized, including increased ability to communicate with other institutions, provisions of education and services, and improved services to consumers with new, needed broadband applications.

The current broadband infrastructure serving community anchor institutions in Arkansas is fragmented and is managed and operated by separate partners. Both ATOM Network and AREON have substantial needs in increasing bandwidth and/or their geographic reach to more community anchor institutions.

The Arkansas Research and Education Optical Network (AREON) currently offers a fiber backbone spanning major cities in the proposed funded service area across 1,455 miles of fiber backbone and 40 miles of lateral fiber that connects Arkansas' four-year universities to facilitate distance learning, research, and other broadband applications for Arkansas' students. AREON seeks to expand its network reach to include two-year colleges.

The ATOM Network is currently a collection of community anchor institutions with limited bandwidth. Comprising the ATOM Network are the UAMS, Baptist Health, Department of Health, Department of Human Services, St. Vincent's, and UAMS Co-Sig Networks, detailed below:

*UAMS: (Current 1.5 Mbps-Fiber) Operates a telehealth network consisting of 60 sites statewide to exchange interactive video in all fields of medicine and healthcare education.

*Baptist Health Hospital: (Current 1.5-100 Mbps) Operates a 38-site hospital and clinical network in conjunction with the Home Care Association of Arkansas, for emergency care, healthcare education, therapy, and home health services.

*Arkansas Department of Health: (Current 1.5 Mbps) Operates the state's bioterrorism network, trauma network, and hospital network located at 85 acute care hospitals for the management of public safety, emergency preparedness, and clinical communication.

*The Department of Human Services: (Current 1.5 Mbps) Operates a 6-site Human Development Center Network, which provides services for persons with developmental disabilities.



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*St. Vincent’s Health System: (Current 1.5 - 45 Mbps) Operates an 11-site affiliated hospital and clinic network.

*UAMS Co-Sig: (Current 1.5 Mbps) Operates a 38-site network for research in comorbidity of substance abuse and mental health.

As described above, the current broadband infrastructure only serves a portion of Arkansas’ larger community anchor institutions, through a fragmented approach, broken into a number of smaller networks operated by separate partners. With such fragmentation being the reality of Arkansas’ current broadband situation, the ATOM Network will add sites and integrate with AREON fiber connectivity to create a comprehensive network that leverages fiber-grade speed at sites that serve a large number of consumers and upgrades the limited bandwidth currently available at community anchors serving regional, rural, and underserved areas. The integrated and upgraded network will create a complementary infrastructure that allows ease in communication among the 474 partners, each committed to the healthcare, higher education, public safety, and research needs of all Arkansans.

The proposed funded service area has few urban areas, as is reflective of Arkansas’ primarily rural nature, but among these urban locations, broadband coverage is more pronounced. Even still, some areas within urban locations do not have broadband access. Rural locations, however, have substantially limited and isolated broadband access. The proposed funded service area can also be analyzed through state-level economic data. Arkansas’ current economic situation ranks below most national averages for economic standing. For instance, according to the US Census Bureau, only 61.1% of Arkansans are in the labor force, compared to the national average of 65.2%. Statewide, only 18.8% have graduated with bachelors degrees, in comparison to the nationwide percentage of 27.4. Reflecting that shortcoming, the amount of employed persons in management or professional positions falls five percentage points below the national average, and the median household income in Arkansas is \$39,127 compared to the U.S. average of \$52,175. Finally, nearly a third more people in the state live at or below the poverty level than the rest of the country.

H. Technology

Technology Type



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Indicate the technology that will be used to deliver last mile services. The following items were selected:

Wireline - xDSL

Wireline - Coaxial Cable

Wireline - Fiber-optic Cable

Wireless - Terrestrial Fixed

Wireless - Terrestrial Mobile

Wireless - Satellite

Other:

Technology Questions

Methodology for Area Status:

Arkansas' designated broadband assessment and mapping entity provided the source data necessary to determine the unserved and underserved status of the project's middle mile service areas. This entity, Connect Arkansas, received BTOP Round 1 funding to map the broadband services of Arkansas. Connect Arkansas provided maps identifying every unserved and underserved census block in Arkansas, along with data files indicating the Federal Information Processing Standard codes, census block counties, total households, and population of all Arkansas areas that met unserved and underserved qualifications. To create such maps, staff members at Connect Arkansas utilized their preexisting statewide broadband availability data and the definitions delineated by NTIA to generate maps and data files that identified unserved and underserved areas in Arkansas according to the BTOP definitions. Specifically, Connect Arkansas determined underserved status using qualifications 1 (percentage of households with access) and 2 (advertised transmission speeds) for underserved census blocks. Connect Arkansas determined unserved and underserved status on Internet Service Providers (ISP) coverage data directly obtained from providers in 2008. Connect Arkansas lacks access to broadband service provider subscriber data, thus the third qualification of underserved could not be determined.



Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program

Submitted Date: 3/26/2010 2:34:28 PM	Easygrants ID: 4493
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: UNIVERSITY OF ARKANSAS SYSTEM
Task: Submit Application - BTOP	Applicant Name: Ms. Suzanne E Alstadt

Connect Arkansas met with the applicant to discuss creation of the project maps. Connect Arkansas maps and data serve as base images for the project maps. Thus, this project directly employs the exact images provided by the statewide broadband mapping entity to depict unserved and underserved areas within the proposed funded service area and middle mile service areas. Connect Arkansas also assisted in formalizing a strategy to calculate the percentage of unserved and underserved areas within the proposed funded service area. Utilizing the original source files, mapping software, and visual assessment of the overlay of middle mile service areas on these maps, Connect Arkansas determined 40% of the proposed funded service area classifies as “underserved” and 6% of areas qualify as “unserved.”

This project also benefits from an alliance with Connect Arkansas, which has provided a Letter of Support for this project. Moreover, the Executive Director of the Arkansas Association of Two-Year Colleges, whom serves as a key partner in this project, is also the Vice Chair of the Connect Arkansas Board. These alliances ensure broadband assessment, mapping, and collaboration with the state’s designated broadband mapping agency will support the deployment of this project.

Description of Network Openness:

*The project will ensure the proposed design adheres to FCC Broadband Policy Statement principles. Both the ATOM Network and AREON fulfill the FCC’s principles to encourage broadband deployment and preserve and promote the open and interconnected nature of the public Internet.

*The project will show no favoritism for lawful Internet applications or content, offering managed services such as telemedicine, public safety communications, and distance learning using private connections and security measures that protect the rights of end users; however, the traverse of public Internet will not favor applications or content. Contracted Internet Service Providers (ISPs) will agree to not give preferential treatment to certain applications and content providers.

*The project applicant, the University of Arkansas for Medical Sciences (UAMS), and contracted ISPs will place network management policies in a prominent location on their websites, alerting customers of any policy changes. The project will operate in complete transparency, with full disclosure to existing and potential end users.



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*Compliant with the Health Insurance Portability and Accountability Act of 1996 that protects the privacy of individually identifiable health information, clinical services offered over the ATOM Network will be open to healthcare entities. While patient information will be appropriately protected, the ATOM Network will offer unrestricted public Internet access through computers at network sites to ensure connectivity to the public Internet, thus ensuring both connection to the public Internet and the safeguard of patient identity. AREON will offer education and research opportunities over a network open to education and research entities, and universities and two-year colleges will offer unrestricted public Internet access through existing computers at their sites.

*The project will offer its community anchor institutions the choice of ISPs through a competitive bid process, selecting ISPs offering competitive pricing and/or discount pricing for MPLS clouds, wireless, fiber, and other geographically accessible broadband technologies. To date, AT&T, Windstream, Rural Telcom Services, Century Link, Ritter Communications, CT&T, and Kaleidoscope Foundation have met with UAMS to discuss involvement in the integrated network.

The ATOM Network and AREON will be governed by existing management structures. The ATOM Board will oversee the timely and compliant execution of the proposal. The ATOM Advisory Council will provide advice and direction to the ATOM Board. The AREON Board of Directors will offer overall strategy for fiber construction to two-year colleges, while its Management Council and Steering Committee provide recommendations to the Board. A representative from the Arkansas Association of Two-Year Colleges will join this governance structure. A combination of UAMS and AREON IT staff and telecommunication vendors will offer monitoring services.

System Design:

The ATOM Network and AREON will integrate employing a “hub-and-spoke” system design that will flow data throughout the proposed funded service area through a shared fiber network and leased circuitry. This project leverages current and proposed network components.

CURRENT

*AREON, a publicly-owned fiber optic network connecting the state’s four-year universities with 1,455 miles of fiber backbone and 40 miles of lateral fiber



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*ATOM Network, various community anchor institutions with limited bandwidth and equipment, who have not yet realized the full potential of broadband equipment, applications and bandwidth

*Approved FCC Rural Health Care Pilot Award funding to add a broadband line at 316 sites

*A centralized, statewide scheduling and management center that oversees the state’s existing healthcare-related broadband networks

PROPOSED

*An “integrated network,” which forms a statewide middle mile network combining the healthcare, higher education, public safety, and research resources at 474 community anchor institutions

*Substantial bandwidth upgrades

*Equipment additions

*Public computer additions

*Expansion of a fiber backbone

Three types of sites are proposed:

* Primary Hubs: 48

“Primary hubs” will serve a large number of end users. Both ATOM Network and AREON hubs will upgrade to connection with the fiber backbone, which will enable the capacity to receive and transmit up to 40 simultaneous video conferences, distance education/online courses, image transfers, patient record transfers, electronic medical records remote hosting sessions, remote patient monitoring, and health information exchange requests.

Composition: 13 Medical Healthcare Providers, 13 Other Institutions of Higher Education, 22 Two-Year Colleges

Average existing capacity: 15 Mbps

Substantial upgrade: 48 sites upgraded to 100 Mbps+, interactive video equipment and/or public-access computers

Average % increase in bandwidth: 567% (15 Mbps to 100 Mbps)

Delivery: AREON fiber and leased circuitry

*Secondary Spokes: 74

“Secondary spokes” will serve suburban and rural areas and will either receive 10 Mbps or 20 Mbps upgrades based on consumer capacity and identified needs. Secondary sites upgrading to 10 Mbps may conduct up to 10 video conferences, distance education/online courses, image



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transfers, patient record transfers, and remote hosting of electronic medical records. Secondary sites upgrading to 20 Mbps can achieve the same applications at 15 simultaneous transmissions and remote patient and equipment monitoring

Composition: 74 Medical Healthcare Providers

Average existing capacities: Sites requesting 10 Mbps upgrade: 1.5 Mbps; sites requesting 20 Mbps upgrade: 13 Mbps

Substantial upgrade: 59 sites upgraded to 10 Mbps; 15 sites upgraded to 20 Mbps; interactive video equipment and/or public-access computers

Average % increase in bandwidth: 567% (1.5 Mbps to 10 Mbps) and 53.8% Increase (13 Mbps to 20 Mbps)

Delivery: Leased circuitry

*Tertiary Spokes: 352

“Tertiary spokes” are primarily rural locations distant from other community anchor institutions. About half of the tertiary spokes (154) will receive additional bandwidth and upgrades of 1.5 Mbps and equipment; whereas, 198 will only receive equipment, a determination based on each key organization’s individually assessed needs. Additions and upgrades will enable one simultaneous video conference, distance education/online course, image transfer, or patient record transfer.

Composition: 336 Medical Healthcare Providers, 1 Public Safety Entity, 8 Libraries, 6 Other Government Facilities, 1 Other Institution of Higher Education

Average existing capacity: Upgrade sites: 768 kbps. Non-upgrade sites: 1.5 Mbps+

Substantial upgrade: 154 sites upgraded to 1.5 Mbps or a new 1.5 Mbps line; interactive video equipment and/or public-access computers

Average % increase in bandwidth: 94.8% (768 kbps to 1.5 Mbps)

Delivery: Leased circuitry

The project’s integrated nature allows all data and video that crosses hubs to be transported through the AREON fiber backbone currently reaching the state’s four-year universities. AREON will light fiber to the four-year universities and lay and light fiber to 22 two-year colleges currently possessing an average existing capacity of 9.79 Mbps, thus enabling 100 Mbps+ upgrades.

The project leverages capacity, speed, reliability, and cost effectiveness, as follows:



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*By integrating with and expanding statewide fiber backbone, both ATOM and AREON sites will achieve capacities far exceeding minimum speed requirements and achieve widespread fiber deployment in Arkansas.

*Network reliability is ensured via routing of traffic through the hub-and-spoke design employing leased connections at both hub and spoke sites.

* The system may employ MPLS, point-to-point, wireless, or other circuits based on cost effectiveness and availability.

*Leased circuitry cost efficiently expands the reach of fiber backbone, without the need for further construction.

*ISPs will participate in a competitive bid process to ensure selection of the most cost-effective solutions for primary, secondary, and tertiary sites. Wireless networks may be employed if bid by ISPs; however, no wireless technologies are presently planned in this system design.

Future build-out capacity of the ATOM Network would likely include

*Bandwidth expansion at secondary/tertiary spokes via lease

*Bandwidth expansion at hubs by purchasing/installing fiber or leasing additional bandwidth

*Interconnection with a potential 1,170 healthcare, 1,406 education, 1,119 public safety, and 231 research community anchor institutions in Arkansas, some currently exhibiting interest

The system design will also establish 34 points of interconnection, where two-year colleges and four-year universities connect to the state’s fiber backbone. With 9.79 Mbps average existing bandwidth at two-year colleges, they will achieve a 921% increase.

Is the applicant seeking a waiver pursuant to section IX.C of the NOFA so as to sell or lease portions of the award-funded broadband facilities during their life?

No

I. Project Budget

Project Budget		
	Federal Grant Request	Match
Last Mile	0	0
Middle Mile	102,464,237	46,720,413



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Total	102,464,237	46,720,413
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Project Budget Total: \$149,184,650

Match Percent: 31.3%

Projects Outside Recommended Funding Range:



Outside Leverage	
Applicant is providing matching funds of at least 20% towards the total eligible project costs?	Yes
Matching cost detail	<p>This project contributes a 31% match, as collected from the community anchor institutions that comprise the integrated network.</p> <p>Cash Match Details</p> <p>*Party Providing Match: Baptist Health Funding Amount (% Total Budget): \$34,800 (0.02%) Type of Funding: Cash Use of Funding: Equipment/Project Management Key Financing Terms: None</p> <p>*Party Providing Match: St. Vincent Health Center Funding Amount (% Total Budget): \$53,600 (0.04%) Type of Funding: Cash Use of Funding: Equipment/Project Management Key Financing Terms: None</p> <p>In-kind Match Details</p> <p>*Party Providing Match: UAMS Match Value (% Total Budget): \$7,170,530 (4.81%)</p>



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	<p>Nature of Contribution: Equipment/Supplies/Office Space Qualification Support: Items directly related to deployment of project</p> <p>*Party Providing Match: Methodist Medical Center Match Value (% Total Budget): \$24,930 (0.02%) Nature of Contribution: Equipment Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: Pathfinder Match Value (% Total Budget): \$90,506 (0.06%) Nature of Contribution: Equipment Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: Arkansas Association of Two-Year Community Colleges Match Value (% Total Budget): \$30,928,925 (20.73%) Nature of Contribution: IT space and equipment Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: AREON Match Value (% Total Budget): \$2,000,000 (1.34%) Nature of Contribution: Existing fiber, equipment Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: Baptist Health Match Value (% Total Budget): \$879,242 (0.59%) Nature of Contribution: Equipment, supplies Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: Homecare Association</p>
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	<p>Match Value (% Total Budget): \$1,155,000 (0.77%) Nature of Contribution: Equipment Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: Community Health Centers of Arkansas Match Value (% Total Budget): \$642,599 (0.43%) Nature of Contribution: Conference and exam rooms to offer broadband services Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: Arkansas Department of Health Match Value (% Total Budget): \$1,142,000 (0.77%) Nature of Contribution: Existing site equipment, IT space, centralized trauma center equipment Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: Arkansas Department of Human Services Match Value (% Total Budget): \$620,000 (0.42%) Nature of Contribution: IT space Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: Arkansas Highway Department Match Value (% Total Budget): \$1,853,280 Nature of Contribution: Highway right-of-way easement for fiber Qualification Support: Items directly related to deployment of project Benefits Derived: Access to the integrated network</p> <p>*Party Providing Match: Arkansas Children’s Hospital Match Value (% Total Budget): \$125,000 Nature of Contribution: Equipment, IT space Qualification Support: Items directly related to deployment of project</p>
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	<p>Benefits Derived: Access to the integrated network</p> <p>The project’s total match amount is \$46,720,413, which is 31% of the total eligible project costs.</p>
Unjust enrichment	<p>UAMS received an FCC Rural Health Care Pilot Program award (FCC award) for reimbursable costs up to \$4.2 million to provide the basic broadband framework for 316 sites in Arkansas. Although approved in 2007, the network still awaits receipt of funding to start work.</p> <p>Written 3 years ago, the FCC award requested a 1.5 Mbps broadband line at 316 sites, regardless of the site’s consumer capacity or needs. The 1.5 Mbps line, although useful at all sites, does not fully address the current and future needs of community anchor broadband. In contrast, this BTOP CCI project accounts for the individualized needs of 474 community anchor institutions, inclusive of these 316 FCC award sites. To complement and build upon the FCC award, the 316 sites request the following from this BTOP CCI project:</p> <ul style="list-style-type: none"> *316 sites request broadband equipment, as the FCC award did not allow purchase of equipment needed to participate in broadband applications *145 sites request broadband equipment, with no need for upgrade on FCC award bandwidth *92 sites request an additional 1.5 Mbps line responsive to problems in managing current capacity of concurrent data transfers and clinical consultation video conferences. These Arkansas Department of Health Local Health Unit sites transmit and receive large amounts of data that interfere with their ability to provide interactive video consultations to their patients. These sites have requested a dedicated 1.5 Mbps line on which video can solely be managed. *79 sites request an upgrade to 100 Mbps (13 sites) and 10-20 Mbps (67 sites) responsive to their needs to participate in statewide health information exchange and interactive video consultation initiatives. These centers and hospitals will act as hubs and secondary spokes. The upward movement of images, records, and video from tertiary to



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	<p>secondary to primary sites will be facilitated through upgraded bandwidth, a request central to achieving the project’s hub-and-spoke design, which makes it possible for data to move statewide through the AREON fiber backbone. This measure ensures non-duplication of services, making patient imaging and records available to medical providers statewide, an improvement in-line with federal healthcare reform.</p> <p>Described below, the project enriches the FCC award.</p> <p>*Whereas, the FCC award will consolidate disjointed telehealth networks, this project will significantly add sites, expand fiber backbone to two-year colleges, and create a comprehensive statewide healthcare, higher education, public safety, and research network for 474 sites.</p> <p>*Whereas, the FCC award will install 1.5 Mbps broadband lines at 316 sites, this project will add and upgrade bandwidth and equipment directly responsive to the individual needs of the key organizations representing all 474 sites.</p> <p>*Whereas, the FCC award created a network governance that guides planning and implementation, this project will leverage this governance to immediately begin compliant work.</p>
<p>Disclosure of federal and/or state funding sources</p>	<p>The University of Arkansas for Medical Sciences has received one federal funding source award for activities related to this application, as follows:</p> <p>Arkansas Telehealth Network. FCC Rural Health Care Pilot Program. Federal Communications Commission, 2007. (\$5,054,988 total / \$4,217,688 award and \$837,300 match)</p> <p>Beyond the FCC Rural Health Care Pilot Program funding described in “Unjust Enrichment,” no other federal and/or state funding sources have been sought to build the broadband infrastructure described in</p>



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	<p>this BTOP proposal.</p> <p>Project items will be purchased using a competitive bid process following all federal, state, and grant guidelines.</p> <p>*Network/Access Equipment: By integrating the ATOM Network with AREON fiber, the project leverages existing resources to keep fiber connectivity and high bandwidth costs at a minimum.</p> <p>*Fiber Expansion: Estimates are based on 1) consultation with an engineering firm experienced with fiber design/construction in Arkansas, and 2) cost of previously completed AREON projects. The cost is assumed on a baseline estimate of \$60,000 per route mile of fiber, \$18,000 per route mile for construction in mountainous or rocky terrain, \$50,000 per route mile for construction in the Mississippi Delta. Equipment locations (19) will require prefabricated structures to house optical transmission equipment, with a base cost of \$40,000 for 10’x12’ structures, including purchase, placement, site/electrical work, and backup generator. Fiber cable and conduit infrastructure is estimated at \$8,000 to connect into buildings on campus and \$5,000 for fencing and easements.</p> <p>*Leased Circuits/Broadband Service: The project will be comprised of 243 new circuits varying from 1.5-100 Mbps and 33 sites connecting via fiber. Creating an in/out circuit at the 48 100-Mbps hubs prevents duplication of connections at spoke sites and decreases mileage cost for transferring data to necessary endpoints. All 243 circuits will be bid as prorated block pricing. Upon completion, a transaction fee on health information exchange will sustain the operating costs of the network. (\$100,724 each)</p> <p>*Customer Equipment: To enable access to the public Internet, 292 locations will receive public computers (\$1500 each).</p> <p>*Interactive Video Equipment: Both educational and clinical interactive video systems will allow teleconferencing and high-definition imaging. The project will install 551 telemedicine units at 439 locations (\$24,951 each).</p> <p>*Hardware/Software: VCS hardware will integrate SIP devices on the integrated network, a feature that broadens scope of connectivity.</p>
Budget reasonableness	



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	<p>Codian bridges will allow simultaneous connection of over 500 end-unit devices. Licenses for management software will be purchased, allowing incorporation into current management software. Videoconferencing hardware and software meet industry standards using the latest Internet protocols (\$13,151 each).</p> <p>*Billing/Operations: The emergency transport monitoring systems will transmit patients' vital statistics to the integrated network. Ten systems will be deployed to transport services in a designated area (\$50,000 each).</p> <p>*Professional Services: End-user devices, installation/connectivity of lines, and equipment will cost \$4,849,619 for installation of facilities, deployment of the network, and quality of service for 843 installation/network testing services. (\$5753 each)</p> <p>*Other Costs: UAMS' DHHS-approved indirect cost rate (26%) will cover costs associated with deploying the project, totaling \$7,745,043.</p>
<p>Demonstration of need</p>	<p>The project responds to the financial needs of 474 community anchor institutions, none of which individually has the funding necessary to build and expand broadband resources within their institution. The UAMS Center for Distance Health is the applicant's division that will direct the efforts of the integrated network. As the current fiscal year budget demonstrates below, funding is unavailable to deploy a statewide infrastructure project of this cost and magnitude.</p> <p>UAMS Center for Distance Health FY 2009 Budget</p> <p>RESOURCES</p> <p>General Fund...110,000 Physician Relations...200,000 Stroke Contracts...1,964,799 DHS Contract...118,844 Grants...265,241 TOTAL RESOURCES...\$2,658,884</p> <p>EXPENSES</p> <p>Salaries...2,176,918 Salary Subtotal...2,176,918 Other Funding (Outside Section or Department)... (1,271,320)</p>



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	<p> Fringes...500,691 Total Compensation...1,406,289 Travel...32,000 Services...6,720 Supplies...57,000 Capital...603,854 Other...61,617 M & O...131,826 TOTAL EXPENSES...\$2,299,306 OPERATING PROFIT (LOSS)... \$359,578 Fund Balance Transfers Between UAMS Divisions or Departments Fund Balance transfers IN ...200,000 Fund Balance transfers OUT...(280,500) NET FUND BALANCE TRANSFER...(\$80,500) SECTION PROFIT (LOSS)...\$279,078 </p> <p> In 2008, the UAMS Center for Distance Health conducted an online market survey of telehealth needs, collecting responses from 189 of Arkansas’ rural and urban healthcare entities. Nearly half (47%) of the respondents identified available funding for broadband and telehealth equipment as their primary barrier to participate in a network. In effect, financial limitations rank as the #1 barrier hindering participation in an integrated healthcare, higher education, public safety, and research broadband network. </p> <p> To further illustrate the budget limitations, one key partner’s financial assessments present further evidence to substantiate the necessity of BTOP funding. In its 2008 report, the American Hospital Association synthesized the financial needs of Arkansas’ hospitals: </p> <p> *Arkansas’ regional hospitals charged \$12.8 billion for inpatient and outpatient care provided at their facilities in 2007. *However, patients and payer groups did not pay the full amount of </p>
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	<p>billed charges, and hospitals were forfeited \$8.2 billion in 2007.</p> <p>*Programs like Medicare, Medicaid, and workers' compensation programs paid part of the bill: \$4.584 billion in 2007.</p> <p>*At the same time, actual patient care services cost hospitals a total of \$4.584 billion in 2007.</p> <p>*So, revenues failed to cover expenses by \$824,679.</p> <p>*Thus, hospitals earned the following amount on each of the equivalent days of care they provided to inpatients and outpatients: \$0.26.</p> <p>*Resulting "patient service" margin yields -0.02%.</p> <p>As this breakdown highlights, one of the primary project partners only made 26 cents a day. Arkansas' hospitals exemplify the needs typical of all the community anchor institutions and the fact that this project would not be possible but for BTOP CCI support.</p>
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Funds to States/Territories

States	Amount of Federal Grant Request
Arkansas	102,464,237

Funds to States/Territories Total: \$102,464,237

J. Historical Financials

Matching Funds			
	2007	2008	2009
Revenue	865,131,000	964,874,000	988,358,000
Expenditures	917,032,000	987,807,000	1,067,034,000
Net Assets	560,199,000	638,190,000	642,414,000
Change in Net Assets from Prior Year	24,555,000	77,991,000	4,224,000



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Bond Rating (if applicable)	Aa3	Aa3	Aa3
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K. Project Readiness

BTOP Organizational Readiness

As proposed, the project can start immediately upon receiving BTOP CCI funding, as the key partners are poised to conduct the work necessary to begin offering broadband benefits to their end users. Several key factors constitute organizational readiness:

* **Organizational Expertise:** The ATOM Network and AREON offer broadband expertise. The ATOM Network partnership combines the majority of Arkansas’ healthcare, public safety, and research entities, several with hands-on experience operating broadband networks. UAMS offers 19 years experience in creating and sustaining its broadband network and provides centralized network management to the state’s healthcare broadband activities. UAMS will leverage these skills to manage the upgraded ATOM Network. Since 2005, AREON has been building the state’s only publicly owned fiber optic network, managing expansions built out in phases to acquire fiber resources for the backbone to connect to Internet2 and the National LambdaRail, and establishing its presence at Arkansas’ four-year universities.

***Established Efforts:** While the ATOM Network and AREON have laid the foundation for broadband networks in Arkansas, current connection speeds are insufficient for needed broadband applications. The integrated network will combine existing networks and add new sites to facilitate communication between currently isolated partners. A number of ATOM Network members worked collaboratively to receive FCC Rural Health Care Pilot Program approval to receive 1.5 Mbps broadband lines at 316 sites. While that FCC funding is forthcoming, this project leverages the FCC resources and significantly advances the network in number of partners, bandwidth capabilities, and equipment availability. Moreover, AREON currently manages a dark fiber network at 11 four-year universities.

***Practicing Governance:** The ATOM Network and AREON are represented by existing governance bodies that will provide leadership to implement, operate, and manage the project. Representative members meet to discuss the compliance, direction, and progress of the state’s current broadband efforts. These governance bodies will direct the project openly and



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transparently, encouraging participation from all the 474 community anchor institutions that comprise this project.

*Billing/Customer Care: UAMS offers skills in federal grant management through a staff of accountants and a grants office that oversee grant accountability and compliance. UAMS accountants also process billing for broadband services and telehealth services. UAMS provides a 24/7 customer care hotline to troubleshoot and schedule interactive video connections as part of network management. As subgrant recipient, AREON will provide accounting oversight to the proposed fiber connectivity to the state’s two-year colleges. AREON is skilled in the administration and management of vast, statewide fiber construction projects.

Construction and Vendor Contracts

*Internet Service Providers (ISP): The project will secure lease agreements through a competitive bid process with ISPs to provide proposed broadband services. AREON, being a research and education backbone, does not compete with local loop providers for commercial and private business. Instead, the project will follow approved State purchasing guidelines that ensure all eligible bidders the opportunity to compete for local loop contracts, reflecting the need for both leased circuits and shared access for local loop segments. Seven ISPs have met with the applicant to discuss their potential for providing broadband services to the project, which will depend on “last mile” public-private partnerships to provide broadband service.

*End-user Equipment: These vendors will respond to a bid process to provide the equipment necessary to enhance broadband applications in the integrated network, on-site setup, and testing of new equipment and supplies.

*Fiber Construction: AREON will issue a competitive bid process to procure existing dark fiber and/or select construction and engineering vendors to design and construct the fiber expansion to the two-year colleges. Public-private partnerships between AREON and providers are essential to the success of the project. AREON has experience contracting with construction and engineering vendors. The selected construction vendors will lay conduits and fiber to two-year colleges.

Interested vendors have provided Letters of Support.

Customer Base



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UAMS will provide overall management to the upgraded ATOM Network, while AREON will provide overall management of the fiber construction to reach two-year colleges. The UAMS customer base is served at the academic medical center’s hospital and the 60 community anchor institutions connected to its broadband network. The academic medical center serves 371,994 outpatients, 19,582 inpatients, 12,353 surgical cases, and 43,510 emergency visits annually. The 60 sites participating in the UAMS broadband network collectively serve over 1,000,000 customers annually. More specifically, approximately 21,000 customers are served through the broadband network and over 400 continuing education teleconferences welcome over 1700 consumers annually through UAMS. The AREON customer base is found at the state’s four-year universities, reaching 11 universities with a total enrollment of 76,356 students. Through this project, AREON will connect college communications with increased bandwidth, institutions that reach over 100,000 students.

A vast majority of the integrated network customers will originate from rural, medically underserved, poverty-saturated areas, with more than half of its customers in the Mississippi Delta, an area with a predominant concentration of minorities. Further, 63 of Arkansas’ 75 counties are considered non-metropolitan and consequently rural, and 48% of Arkansans are considered rural, compared to the nation, where only 21% are considered rural.

Licenses, Regulatory Approvals and Agreements

This project’s licensing and regulatory approvals will be the responsibility of the Internet Service Providers (ISPs) who will provide the proposed broadband services. These licenses and regulatory approvals are expected to include any FCC authorizations, state authorizations, and other typical agreements that must be secured by ISPs to participate in such broadband activities. Since many of Arkansas’ broadband telecommunications companies are well-established carriers, it is anticipated many of the contractual vendors will have experience in seeking and adhering to these licenses and regulatory procedures. UAMS will contract with ISPs to install the proposed leased circuits to community anchor institutions. In collecting these contractual bids, responders will specify their required and secured licenses and regulations to ensure the respondent can offer timely and compliant service.

In addition to these licenses and approvals, the expansion of AREON fiber to two-year colleges will require city franchise and easement agreements where fiber builds are required. Although AREON is a non-profit entity, many cities require the organization to initially acquire licenses, agreements, and approvals. AREON has established agreements with many cities in Arkansas in



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the construction of its existing fiber backbone, thus making the organization familiar with securing the agreements to be sought. The agreements have not yet been applied for but will be if funding is approved.

SPIN Number

L. Environmental Questionnaire

Project Description

For all portions of the network where fiber optic cable will be constructed, the following applies. Typical construction in rural areas along intercity highway rights-of-way will be predominantly done via cable plow. In locations where surface features do not accommodate plowing, cable will be placed using underground boring. Crossings of smaller streams or rivers will also be done by boring, but bridge attachments of conduit-encased fiber will be necessary for larger bodies of water for which boring is impractical or too expensive. Most construction within cities and campuses will be done via underground boring.

For all sites receiving electronic equipment, including connected campuses and fiber amplification sites, a prefabricated fiber hut large enough to house several racks of equipment and integrated air conditioning and generator backup is planned. The intercity fiber being constructed will extend to these huts, and additional lateral fiber will be constructed into each campus to its network demarcation point. A few campuses with existing data centers with sufficient space, cooling, generator backup, and security to support the optical equipment node will not receive prefabricated fiber huts nor intercity fiber. With the exception of the installation of two-post racks or equipment cabinets to house the optical equipment and the construction of the fiber into the building, no other building renovations or construction is planned or anticipated.

Property Changes

The project will be constructed upon publicly-owned land unless field conditions unexpectedly dictate otherwise.



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Buildings

All buildings constructed or modified will be treated according to conditions set forth in Categorical Exclusions B.5 through B.14.

Wetlands

The project does not impact any identified wetland.

Critical Habitats

The project does not impact Critical Habitats in the state of Arkansas.

Floodplain

The project does not include facilities or resources that fall within a 100-year or 500-year floodplain.

Protected Land

The project does not impact protected lands.

Coastal Area

The project is not located in or near a coastal area.

Brownfield

The project does not include any facilities that impact or are impacted by a brownfield zone.



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Uploads

The following pages contain the following uploads provided by the applicant:

Upload Name	File Name	Uploaded By	Uploaded Date
Service Offerings and Competitor Data	Service_Offerings.xlsx	Alstadt, Suzanne	03/19/2010
Network Diagram	Network_Diagram.pdf	Alstadt, Suzanne	03/19/2010
Build Out Timeline	3 Build out Timeline and Project Plan.pdf	Alstadt, Suzanne	03/26/2010
List of Community Anchors and Points of Interest	CAI and POI.xlsx	Alstadt, Suzanne	03/22/2010
Management Team Resumes and Organization Chart	Resumes and Org Charts.pdf	Alstadt, Suzanne	03/23/2010
Government and Key Partnerships	Letters_of_Support_1.pdf	Alstadt, Suzanne	03/25/2010
Historical Financial Statements	Historical Financial Statements.pdf	Alstadt, Suzanne	03/19/2010
Budget Narrative	CCI Budget Narrative Update Uploaded.doc	Alstadt, Suzanne	03/20/2010



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Detailed Budget	CCI Detailed budget FINAL 3-18-10.xlsx	Alstadt, Suzanne	03/19/2010
Pro-forma Forecast	CCI Pro forma financial projections 3-19-10 Final.xlsx	Alstadt, Suzanne	03/24/2010
Subscriber Estimates	CCI_Subscriber_estimates_UAMS_1 3-24-10.xlsx	Alstadt, Suzanne	03/25/2010
Dashboard Metrics	Metrics 2.doc	Alstadt, Suzanne	03/25/2010
Service Area Data	CCI Service Areas 1.xls	Alstadt, Suzanne	03/22/2010
Network Maps	BTOP_Maps_RoundII_final.pdf	Alstadt, Suzanne	03/24/2010
BTOP Certifications	15 Certifications.pdf	Alstadt, Suzanne	03/26/2010
SF-424 C and D	16 SF 424 C and D.pdf	Alstadt, Suzanne	03/26/2010