RESUME				
NAMEPOSITION TITLECurtis L. Lowery, MDProfessor and Chairman, DepartmeObstetrics and Gynecology, UAMS			•	
EDUCATION/TRAINING				
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY	
University Montevallo, Montevallo, AL	BS	1977	Science	
University of Alabama at Birmingham School of Medicine, Birmingham, AL	MD	1981	Medicine	
Charleston Area Medical Center, Charleston WV	n/a	1981 – 1985	Residency in Obstetrics and Gynecology	
Medical University of South Carolina, Charleston, SC	n/a	1985 – 1987	Fellow in Maternal-Fetal Medicine	

Selected Professional Experience

- 1992 Director of Obstetrics, UAMS, Little Rock, AR
- 2002 Associate Professor, Department of Maternal and Child Health, UAMS, Little Rock, AR
- 2003 Medical Director, ANGELS (Antenatal & Neonatal Guidelines, Education Learning System) Program, Department of Obstetrics & Gynecology, UAMS, Little Rock, AR
- 2006 Medical Director, Center for Distance Health, College of Medicine, UAMS, Little Rock, AR
- 2008 CEO of SARA Technologies, LLC, Little Rock, AR

Selected Honors and Awards

- 2006 American International Health Alliance second tour of medical facilities in Moscow and Volgograd, Russia
- 2007 Education Innovation Award, College of Medicine, UAMS, Little Rock, AR
- 2007 American Telemedicine Association: Innovation Award ANGELS selected as the year's most innovative telemedicine program
- 2007 AT&T Center for Telehealth Research and Policy's Hugo Gernsback Award for Clinical Innovation in Telemedicine
- 2008 Rural Telecon 08, Rural Telecommunications Congress, 11th Annual Conference, People's Choice: Biggest Impact Award

Selected Peer-Reviewed Publications (in Chronological Order)

Eswaran H, Lowery CL, Wilson JD, Murphy P, Preissl H. Fetal Magnetoencephalography – A multimodal approach. *Developmental Brain Research*, Jan 2005; 154:57-62.

Lowery CL and Wendel, PJ. Prolonged Pregnancy in Reece & Hobbins (eds) *Handbook of Clinical Obstetrics: The Fetus and Mother*, Print ISBN 9781405156097, Jan 2007, 3rd ed., pp 513-515.

Lowery CL, Bronstein J, McGhee J, Ott R; Reece AE, Mays GP. "ANGELS and University of Arkansas for Medical Sciences paradigm for distant obstetrical care delivery." *American Journal of Obstetrics and Gynecology*. 2007 Jun, 196 (6): 534.e1-9.

Govindan RB, Wilson JD, Preissl H, Murphy P, Lowery CL, Eswaran H. "An objective assessment of fetal and neonatal evoked responses." *NeuroImage*, Nov 2008: 43(3): 521-527.

Selected Research Support

- 2006 2007 Principal Investigator, "Train & Maintain: A Center for Distance Health Initiative in association with the Arkansas Division of Health and Bioterrorism" CE for Health Professionals Steering Committee (\$184,000) (Awarded)
- 2007 2008 Principal Investigator, Arkansas Telehealth Network Oversight, FCC Rural Health Care Pilot Program proposal (\$5,054,988) (Pending)
- 2007 2012 Principal Investigator, Train & Maintain: A Center for Distance Health Initiative in association with the Arkansas Division of Health and Bioterrorism CE for Health Professionals Steering Committee (\$184,000) (Awarded)
- 2009 2014 Principal Investigator, Arkansas Center for Clinical and Translational Research, U54 RR025209, (\$19,354,312) (Awarded)

RESUME			
NAME Ann Bailey Bynum, EdD	POSITION TITL Director, F		tal Program, Regional
	•	•	ciate Director, Program ealth Education
	Centers P	rogram, UA	MS
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Arkansas, Fayetteville, AR	BS	1963	Biological Science, Health Education/HPER

University of Arkansas, Fayetteville, AR	MEd	1976	Health Education/HPER
Nova Southeastern University, Miami, FL	EdD	1980	Higher Education
Teletraining Institute, Stillwater, OK	CDLI	2002	Certified Distance Learning Administrator

Selected Professional Experience

2002 – Assistant Professor, Department of Health Policy and Management, UAMS, Little Rock, AR

2003 – Assistant Professor, University of Arkansas Clinton School of Public Service, Little Rock, AR

1996 – Certified Instructor, Organizational and Interpersonal Communications, Forte Institute, Internet/Online

1991 – Associate Director, Program Development, Area Health Education Centers, UAMS, Little Rock, AR

1991 – Director, Rural Hospital Program, Regional Programs, UAMS, Little Rock, AR

Selected Appointments

1997 – 2000	American Telemedicine Association Nursing and Allied Health Task Force
1996 – 2000	American Telemedicine Association Rural Telemedical Task Force
1998 – 1999	Southern Governors' Association Task Force on Medical Technology
2000 –	American Telemedicine Association Research and Evaluation Task Force
1999 —	Board, Southwest Center for Agricultural Health, Injury Prevention and Education

Selected Peer-Reviewed Publications (in Chronological Order)

Tilford JM, Garner WE, Strode S., Bailey CA, "Rural Arkansas Physicians and Telemedicine Technology: Attitudes in Communities Receiving Equipment," *Telemedicine Journal*, vol. 3, no. 4, 1997.

Bynum B, Irwin C, "Cost-Benefit Analysis of a Telemedicine Program in Rural Arkansas," *Telemedicine Journal and e-Health*, Abstract, Volume 8, Number 2, summer 2002.

Bynum CA, Cranford CO, Irwin C, Denny DS, "Participant Satisfaction in Adult Telehealth Education Program Using Interactive Compressed Video Delivery Methods in Rural Arkansas," *Journal of Rural Health*, summer 2003, Vol.19.No.3.

Irwin C., Bynum CA, "Access to Medical Care Among Participants in a Telemedicine Program," *Telemedicine Journal and e-Health*, Volume 11, Number 2, April 2005, p.210.

Selected Awarded Research Support

- 1995 1996 Co-Investigator, Rural Electrification Administration, Department of Agriculture, "Arkansas Rural Medlink" (\$490,000) (Awarded)
 1998 1998 Principal Investigator, "Telemedicine: Improving Access of Arkansas Communities through
- Telecommunications," Grant Department of Information Services (\$296,660) (Funded)
- 1997 2000 Principal Investigator, Office for the Advancement of Telehealth (HRSA), "Telehealth: Taking the Distance Out of Caring" (\$849,986) (Awarded)
- 2000 2003 Principal Investigator, Office for the Advancement of Telehealth (HRSA), "Rural Arkansas Delta Integrated Telehealth System" (\$846,000) (Awarded)
- 2006 2009 Principal Investigator, Office for the Advancement of Telehealth (HRSA), "Telehealth for Kids in Delta Schools (Telehealth KIDS)" (\$750,000) (Awarded)
- 2009 2011 Principal Investigator, Office for the Advancement of Telehealth (HRSA), "Arkansas Center for Telehealth (ACT)" (\$750,000) (Pending)

RESUME		
NAME Tina L. Benton, RN, BSN	POSITION TITLE Program Director, ANGELS (Antenatal & Neonatal Guidelines and Education Learning System) Program,	
	Department of Obstetrics and Gynecology, and Oversight Director, Center for Distance Health, UAMS	

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Henderson State University, Arkadelphia, AR	BSN	1984	Nursing

Professional Experience

- 1982 1985Relief Charge Nurse for general medical and surgical units, Charge Nurse for Pediatric Unit, Charge
Nurse for Obstetrical Unit, Saline Memorial Hospital, Benton, AR
- 1985 1989 Public Health Nurse, Home Health Nurse, Preventative Health Care and Lead Nurse for Maternity Program, Saline County Health Unit, Benton, AR
- 1989 1991 Staff Nurse, Clinic Nursing Coordinator, Department of Obstetrics & Gynecology, UAMS, Little Rock, AR
- 1991 2003 Perinatal Outreach Nurse, Division of Maternal-Fetal Medicine, Department of Obstetrics & Gynecology, UAMS, Little Rock, AR
- 1991 2003 Aide in the teaching of Medical Students rotating through the Department of Obstetrics and Gynecology, UAMS, Little Rock, AR
- 1992 2003 Preceptor to senior nursing students, UAMS, Little Rock, AR
- 2003 Program Director, ANGELS (Antenatal & Neonatal Guidelines and Education Learning System) Program, Division of Maternal-Fetal Medicine, Department of Obstetrics and Gynecology, UAMS, Little Rock, AR
- 2006 Oversight Director, Center for Distance Health, Little Rock, AR

Selected Honors, Awards, and Professional Appointments

- 1988 Employee of the Month, Arkansas Department of Health
- 1993 Association of Women's Health, Obstetric and Neonatal Nurses
- 1996 Super Services Award, UAMS

Presentations

- 1995 Antepartum Nursing and AIDS Delta Regional AIDS Education St. Bernard's Hospital, Jonesboro, AR
- 1996 Diabetes and Pregnancy Nursing Management Considerations 13th Annual Conference on Perinatal Care UAMS, Department of OB/GYN, Little Rock, AR
- 1996 Preterm Labor, Maternal Core Course (Bi-Annual) Arkansas Department of Health, Little Rock, AR

RESUME
POSITION TITLE
Manager, Arkansas Telehealth Oversight &
Management (ATOM) and Director of
Hospital Relations, Rural Hospital Program, UAMS
-

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Henderson State University, Arkadelphia, AR	BSE	1974	Education

Selected Professional Experience

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1974-1976	Caseworker / Casework Supervisor, Arkansas Department of Human Services, Little Rock, AR
1976-1980	Community Services Coordinator, Arkansas Department of Human Services, Little Rock, AR
1980-1984	Assistant Director, Camp Aldersgate, Little Rock, AR
1984-1989	Executive Director, Arkansas Spinal Cord Commission, Little Rock, AR
1989-1994	Administrator, HIV/AIDS Surveillance, Arkansas Department of Health, Little Rock, AR
1994-1997	Director, Arkansas Cancer Registry, Arkansas Department of Health, Little Rock, AR
1997-1999	Director, Division of Chronic Disease and Disability Prevention, Arkansas Department of Health, Little Rock, AR
1999-2002	Business Analyst, Division of Quality Engineering, Arkansas Department of Information Systems, Little Rock, AR
2002-2006	Coordinator for Hospital Preparedness, Office of Public Health Protection, Arkansas Department of Health, Little Rock, AR
2006-2007 2008 2009	Enterprise Architect, Arkansas Office of Information Technology, Little Rock, AR Manager, Arkansas Telehealth Oversight & Management (ATOM), UAMS, Little Rock, AR Director of Hospital Relations, Rural Hospital Program, UAMS, Little Rock, AR

RESUME		
NAME	POSITION TITLE	
Mary P. Leath	Deputy Director for Administration,	
-	Arkansas Department of Health,	
	Little Rock, Arkansas, and ATOM Board	
	Member	
EDUCATION/TRAINING		

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Arkansas at Little Rock	n/a	1978	n/a

Selected Professional Experience

Selected Profe	<u>ssional Experience</u>
1978 – 1978	Budget Technician, Department of Finance and Administration, Little Rock, AR
1979 – 1995	Budget Analyst Trainee to Senior Budget Analyst/Systems Specialist, Department of Finance and
	Administration, Little Rock, AR
1979 – 1995	Bill Clerk during various legislative sessions, Office of the Governor, Department of
	Finance and Administration, Little Rock, AR
1996 – 1997	General Business Manager, Department of Environmental Quality, Little Rock, AR
1997 – 1999	Assistant Administrator, Budget Analysis, Department of Finance and Administration, Little Rock, AR
1999 – 2000	Finance Director, Department of Health, Little Rock, AR
2000 – 2007	Chief Deputy Director, Department of Environmental Quality, Little Rock, AR

- 2000 2007 Chairperson of Chief Information Officer Council (governor-appointed position), Department of Environmental Quality, Little Rock, AR
- 2007 Deputy Director for Administration, Department of Health, Little Rock, AR

Selected Professional Appointments

Member, Arkansas Telehealth Oversight and Management Board (ATOM)

Member, Association of State and Territorial Health Officers – Finance Committee

Arkansas Governmental Manager

Past Chair, Chief Information Officer Council

Past Member, AASIS Steering Committee

Past Member, State Government's Administrative Efficiency and Improvement Committee

Past Member, National Association of State Budget Officers

RESUME NAME POSITION TITLE Michael Abbiatti Executive Director, Arkansas Research and Education Optical Network

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Arkansas, Fayetteville, AR	BS	1971	Biology
University of Arkansas, Fayetteville, AR	MS	1975	Microbiology
Northwestern State University, Natchitoches, LA	EdS	1990	Academic Technology

Positions and Honors

Selected Professional Experience

1998 – 2008Associate Commissioner, Information and Learning Technology – Louisiana Board of Regents2004 – 2008Founding Coordinator of the Louisiana Optical Network Initiative2008 –Executive Director of the Arkansas Research and Education Optical Network, Fayetteville, AR

Professional Activities

American Society for Mechanical Engineers Postsecondary Education Campus Physical Security Standards National Advisory Board

ComputerWorld –Smithsonian Laureate Award

Founding Director, Louisiana Electronic Campus/Statewide E-learning Support Center

Founding Chair, Louisiana Statewide Interoperability Executive Committee

Former National Lambda Rail Board of Directors

MICTA National Learning Management System (LMS) selection Board

Southern Regional Education Board Technology Cooperative, Electronic Campus - Boards/Committee leadership

Collaborations

- Dr. Ed Seidel (National Science Foundation) collaborating on the founding/operation of the Louisiana Optical Network Initiative
- Dr. Allen Sugg (President of the University of Arkansas System), Institutional Presidents and Chancellors of the eleven public postsecondary institutions in the state of Arkansas on the founding/operation of the Arkansas Research and Education Optical Network

NAME POSITION TITLE Edward L. Franklin Executive Director, Arkansas Association of Two-Year Colleges

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Arkansas, Fayetteville, AR	BA	1969	Psychology
University of Arkansas, Fayetteville, AR	MEd	1975	Rehabilitation Counseling
University of Kansas, Lawrence, KS	EdD	1988	Higher Education

Positions

1991 – 1996	Assistant Dean of Student Development, Johnson County Community College, Overland Park, KS
1992 – 1996	Senior Partner, The Maxam Group
1996 –	Executive Director, Arkansas Association of Two-Year Colleges, Little Rock, AR

Appointments

1992-96	ACT State Council and as Secretary of the governing board
1992-96	Chair, Board of Heartland, Incorporated
1996-97	President, National Council for Student Development - American Association of Community Colleges
1999 – 2000	Vice President, State Board of Communities in Schools
2000	Vice Chairman, Annual National Conference for Community and Justice Banquet
2000 – 2004	Board, ExploreNet
2000 - 2002	President, State Board of Communities in Schools
2002 –	Finance Committee, Salem United Methodist Church
2003 –	Board, Faulkner County Single Parent Scholarship

Memberships

National Council on Student Development American Society of Association Executives American Association of Community Colleges Association of Community College Trustees Arkansas State Chamber of Commerce

Publications

Assisted in writing The League for Innovation Statement on Student Success. (1985)

Participated in creating the ACT monograph on Access, Assessment, and Developmental Education (1993)

Franklin, E. (1997) The 504/ADA as a Philosophical Basis for Advising Students. In M. Ramos and D. Vallandingham (Eds.)., <u>Advising Students with Disabilities</u> (pp. 13-17). NACADA monograph 5.

Griffin, P., & Franklin, E. (Eds.). (1994). Student Development - Leadership for a New Century ACT.

Franklin, E. (1994). What leadership should student development administrators provide in dealing with disability issues? In P. Griffin & E. Franklin (Eds.) <u>Student development - Leadership for a New Century</u>, ACT.

Denton, P., Seybert, J., & Franklin, E., (1988). Aldeas and practice: A content based learning strategies program. <u>Journal</u> <u>of Developmental Education</u>, 11(3), 20-24.

Franklin, Ed. (1988) <u>Attrition among community college hearing impaired students in mainstreamed programs</u>. Dissertation, University of Kansas

Franklin, E., & Rubin, S. (1976). Facilitating the suitable placement of deaf rehabilitation clients. <u>The Journal of Applied</u> <u>Rehabilitation Counseling</u>, 7(3), 164-169.

RESUME					
NAME POSITION TITLE Carolyn Ashcraft State Librarian/Director, Arkansas State Library, Little Rock, Arkansas			•		
EDUCATION/TRAINING					
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY		

University of Arkansas at Monticello, Monticello, AR	BA	1979	English
University of Alabama, Tuscaloosa, AL	MLS	1991	Library Science and Librarianship

Selected Positions

- 1981 1986 Librarian, Grant County Library, Sheridan, AR
- 1986 1993 Director, Saline County Library, Benton / Bryant, AR
- 1993 1996 Library Program Advisor, Arkansas State Library, Little Rock, AR
- 1996 2004 Coordinator of Extension Services, Arkansas State Library, Little Rock, AR
- 2004 2005 Associate Director for Library Services and Development, Arkansas State Library, Little Rock, AR

Honors/Awards/Committees/Memberships

- 1981 Member, American Library Association
- 1981 Member, Arkansas Library Association
- 1999 2001 Member of Executive Board, Arkansas Library Association
- 1999 2003 Member, Federal-State Cooperative System Steering Committee
- 2000 President, Arkansas Library Association
- 2002 Chair, Federal-State Cooperative System Steering Committee
- 2006 2007 Representative for Chief Officers of State Library Agencies, State Library Agency Steering Committee

RESUME				
NAME POSITION TITLE Emerson Evans GIS and Data Collection Manager, Connect Arkansas				
DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY		
BS	2006	Geography		
	POSITION TITL GIS and Da Arkansas DEGREE (if applicable)	POSITION TITLE GIS and Data Collection Arkansas DEGREE (if applicable) YEAR(s)		

Selected Positions

GIS and Data Collection Manager, Connect Arkansas, Little Rock, AR Engineer, Alltel Wireless, Little Rock, AR Contractor, Centerpoint, Little Rock, AR 2008 –

2006 - 2008

2006

RESUME			
NAME	POSITION TITLE		
Tom S. Butler	Vice-Chancellor for Administration &		
	Governmental Affairs and Administrator of		
	the Donald W. Reynolds Center on Aging,		
	UAMS		
EDUCATION/TRAINING			

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Arkansas Polytechnic College, Russellville, AR	BA	1965	Business Administration

Selected Prof	essional Experience
1967-1968	Customer Service Representative, Arkansas Power & Light Company, Little Rock, AR
1968-1972	Arkansas Department of Finance & Administration Personnel Supervisor
1972-1975	Administrator, Maternal and Child Health, Arkansas State Department of Health, Little Rock, AR
1975-1979	Administrator, Bureau of Medical Care Services, Arkansas State Department of Health, Little Rock, AR
1979-1981	Director, Bureau of Administrative Support, Arkansas State Department of Health, Little Rock, AR
1981-1997	Deputy Director for Administration, Arkansas State Department of Health, Little Rock, AR
1981-1997	Director, Bureau of Administrative Support, Arkansas State Department of Health, Little Rock, AR
1997 –	Vice-Chancellor for Administration & Governmental Affairs, UAMS, Little Rock, AR
1997 –	Administrator, Donald W. Reynolds Center on Aging, UAMS, Little Rock, AR

Selected Honor

1991 National Governors Association, Distinguished Service to State Government

Memberships and Activities

Association of State and Territorial Health Officers Arkansas Public Health Association Past President, Board of Directors, Junior Deputy Baseball Park Little League Coach, Junior Deputy Baseball Park Mentor, Little Rock School District

RESUME					
NAME Rhonda Jorden	Clinical O	hnology Offi	cer and Director of gy, UAMS		
EDUCATION/TRAINING					
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY		

	(if applicable)	.,	
Arkansas State University, Jonesboro, AR	BS	1987	Computer Information Systems
Arkansas State University, Jonesboro, AR	MBA	1992	Business Administration

i oontionio ana	
1987 – 1992	Contract Programmer/Analyst, Wood Software, Inc., Jonesboro, AR
1992 – 1997	Application Systems Analyst/Programmer – Lead, UAMS, Little Rock, AR
1997 – 1998	Application Systems Analyst/Programmer – Manager, UAMS, Little Rock, AR
1998 – 2002	Director – ERP, Development & Patient Systems, UAMS, Little Rock, AR
2002 –	Chief Technology Officer and Director of Clinical Operations, UAMS, Little Rock, AR

Other Training AAMC GIR Leadership Graduate CHIME CIO Boot Camp Graduate Microsoft SQL 6.5 – Administration Microsoft SQL 6.5 – Implementation Continuous Quality Improvement (CQI)

R	ESUME		
NAME Julie Hall-Barrow, EdD	Public Hea	structor, Co	ollege of Nursing and vision Director, Center JAMS
EDUCATION/TRAINING		,	
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Longwood College, Farmville, VA	BS	1992	Physical and Health Education
University of North Texas, Denton, TX	MS	1994	Kinesiology
University of Arkansas at Little Rock, Little Rock, AR	EdD	2004	HIED, Administration

Selected Professional Experience1994 – 1997Director of Health Works,1997 – 2002Director of Health Promotion and Wellness, College of Nursing1997 –Clinical Instructor, College of Nursing, UAMS, Little Rock, AR2001 –Clinical Instructor, College of Public Health—Health Policy and Management, UAMS, Little Rock, AR2002 – 2007Associate Director, Program Development, Rural Hospital Program, UAMS, Little Rock, AR1999 – 2007Director of Education, Rural Hospital Program, UAMS, Little Rock, AR2007 –Division Director, Center for Distance Health, UAMS, Little Rock, AR

<u>Selected Memberships</u> Wellness Councils of America UAMS Women's Health Advisory Board Wellness Council of North Carolina, Advisory Board Member

Selected Peer-Reviewed Publications (in Chronological Order)

West, D., Adams, B., O'Sullivan, P., Hall-Barrow, J. & Hine, R.J. (2004). "Developing a diabetes review course for rural health professionals using Videoconferencing." *The Diabetes Educator*, 30, 2, 210-221.

Hodges, L., Satkowksi Harper, T., Hall-Barrow, J., & Tatom, I. (2004). "Reducing Overall Healthcare Costs for a City Municipality." *American Association of Occupational Health Nurses, Inc.*, 52 (6): 247-53.

Burke, B., Bynum, A., Hall-Barrow, J., Ott, R., Albright, M. (2008). "Rural School-Based Telehealth: How to Make It Happen." *Clinical Pediatrics*, 47 (9), 926-929.

Balanurugan, A., Hall-Barrow, J., Blevins, M.A., Brech, D., Phillips, M., Bittle, K., Holley, E., (2009). "A Pilot Study of Diabetes Education via Telemedicine in a Rural Underserved Community: Opportunities and Challenges. A Continuous Quality Improvement Process." *The Diabetes Educator*, 35 (1).

Selected Research Support

- 2008 2009 "AR SAVES (Stroke Assistance through Virtual Emergency Support" Arkansas Department of Human Services Role: Project Director Amount: \$6,200,000 (Awarded)
- 2006 2009 "Telehealth for Kids in Delta Schools" Office for the Advancement of Telehealth Role: Co- Investigator Amount: \$750,000 (Awarded)
- 2006 2006 "Telehealth Diabetes Self-Management Education" Department of Health and Human Services – Arkansas Role: Principal Investigator Amount: \$25,000 (Funded)

	RESUME						
NAME Roy Kitchen, MS	POSITION TITLE Business Administrator, Center for Distance Health, and Deputy Administrator, Department of Obstetrics and Gynecology, UAMS						
EDUCATION/TRAINING							

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Arkansas at Monticello, Monticello, AR	BS	1998	Business Administration
University of Arkansas, Fayetteville, AR	MS	2001	Operations Management

Professional Experience

1985 – 1999 Supervisor/Specialty Operator, Georgia Pacific Corporation, Crossett, AR

1999 - 2000 Assistant Manager, Wal-Mart, Incorporated, Little Rock, AR

2000 - 2000 Diversity Director/ Recruiter, Arkansas Waffles Incorporated, Little Rock, AR

2001 – 2001 Financial Services Manager St. Vincent Infirmary Medical Center, Little Rock, AR

2002 – 2007 Business Administrator, Čardiovascular Medicine, UAMS, Little Rock, AR

2001 - Instructor/Adjunct Professor, Marketing and Sales Management, University of Central Arkansas, Conway, AR

2007 - Deputy Administrator, Department of Obstetrics and Gynecology, UAMS, Little Rock, AR

2007 – Business Administrator, Center for Distance Health, UAMS, Little Rock, AR

Selected Professional Appointments

- General Business Administrators Committee
- Faculty Group Practice Subcommittee
- Professional Standards Committee
- Continuing Education Committee
- Contract Management Training Committee
- ATOM (Arkansas Telemedicine Oversight Management Committee)
- Member of American Telemedicine Association

Presentations

- Barringer SN, Baxter C, Miller LH, Thompson J, Pick BK, Kitchen R, Benton TL, Ott R. (2009) Substance Abuse & Mental Health: Improving Comorbidity Services through Telemedicine. Poster presentation, American Telemedicine Association, 14th Annual International Meeting & Exposition, Las Vegas, NV.
- Ibrahim E Fahdi, Chenghui Li, Rosalyn Perkins, Becky Hall, Melanie Green, Karen Cox, Roy Kitchen, Rachel E Ott, Curtis Lowery. (2009) Oral presentation, American Telemedicine Association, 14th Annual International Meeting & Exposition, Las Vegas, NV.

Selected Professional Development

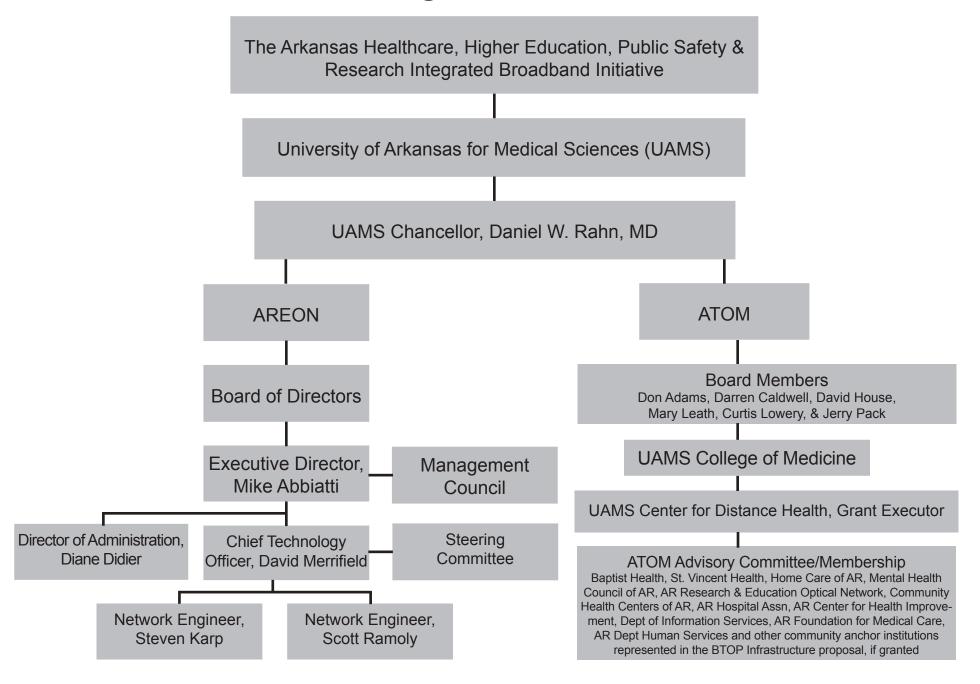
- St. Vincent Leadership Institute
- Dale Carnegie's Leadership
- Arkansas Leadership School
- Communication-Group Problem Solving/Grievance Handling
- Quality and Productivity Improvement
- Grants Management Certification
- SBIR Training
- Tandberg Training Center
- Managing a Professional Life: Ethics and Professionalism

	RESUME
NAME Eric McKenney	POSITION TITLE Video Conferencing Team Manager, ANGELS, UAMS
EDUCATION/TRAINING	

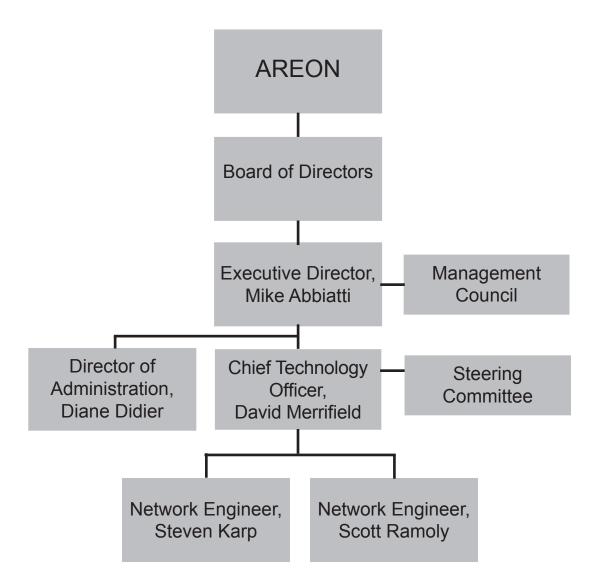
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Community College of the Air Force, Montgomery, AL	Certificate	1992-1993	Avionics and Electronics Systems
University of Arkansas at Little Rock, Little Rock, AR	n/a	Current	Electronic Technology and Computer Programming

- 1992 1996 F-16 Avionics Systems Specialist, United States Air Force, Valdosta, GA
- 1996 1997 Computer Technician I, UAMS, Little Rock, AR
- 1997 1998 Systems Analyst, Entergy, Little Rock, AR
- 1998 1999 Help Desk HEAT 5.0 Administrator, UAMS, Little Rock, AR
- 1999 2002 Desktop Support Specialist, UAMS, Little Rock, AR
- 2002 2007 Network Engineer, UAMS, Little Rock, AR
- 2007 2007 Video Conferencing Team Lead, UAMS, Little Rock, AR
- 2008 Video Conferencing Manager, UAMS, Little Rock, AR

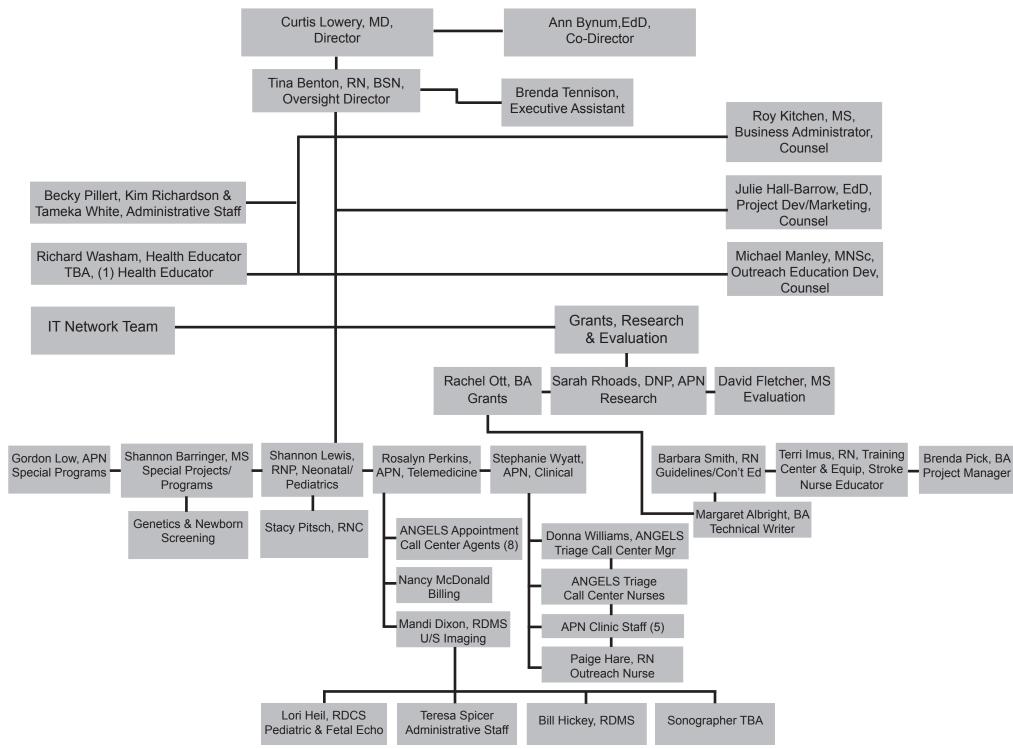
The Arkansas Healthcare, Higher Education, Public Safety & Research Integrated Broadband Initiative



Arkansas Research and Education Optical Network (AREON)



UAMS Center for Distance Health



BTOP Comprehensive Community Infrastructure Subscriber Estimates Template

Please complete the complete the Subscriber Estimates worksheet.

All applicants should indicate their 8-year subscriber forecasts with a breakdown by type of subscriber (residential/individual, businesses, community anchor institutions, third party service providers) and service offerings. The names of the service offerings should match those provided in the Service Offering and Competitor Data upload, enabling reviewers to easily cross-reference between the two documents. The Year 0 column should be used to denote any existing customers within the Proposed Funded Service Area. In addition, applicants that project that they will have third party service provider customers should include a line for parties "Served by Third Party Service Providers," showing an estimate of how many residential/individual, community anchor institution, and business customers will be served by those service providers, as demonstrated in the example below. At the bottom of the table, applicants should provide customer totals across all service offerings, with and without customers indirectly served through a third party service provider (if applicable). Applicants should also include a brief discussion of their methodology for deriving these estimates.

In contrast to several other upload templates in this application, the data provided via this template will NOT be subject to automated processing. Applicants are permitted to modify the template layout in order to provide the most effective presentation of the data for their specific project, but such modifications are generally discouraged. Applicants should, in any case, ensure that they provide at least as much detail as the provided template requires. To the extent that you modify these templates please ensure that the print layouts are adjusted so that rows do not break across pages in a manner that will be difficult to understand. A PDF of this file will be automatically generated upon upload to Easygrants, and the print settings will be used to format the PDF file.

EXAMPLE

Name of Service Offering	Customer Type	Year 0	Cumulative/ Year 1						Year 2				
Name of Service Offering	customer Type	fear 0	Net Add	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4		
	Community Anchor Inst.	0	Cumulative	0	0	0	0	5	10	17	26		
	community Anchor list.	0	Net Add	0	0	0	0	5	5	7	9		
Mega-Metro E - 100 Mbps	Business	0	Cumulative	0	0	0	0	12	27	52	82		
Mega-Metro E - 100 Mbps	Busiliess	0	Net Add	0	0	0	0	12	15	25	30		
	Third Party Service Provider	0	Cumulative	0	0	0	0	1	2	4	6		
			Net Add	0	0	0	0	1	1	2	2		
	Indirect - Res./Ind.	0	Cumulative	0	0	0	0	1000	3000	5000	10000		
			Net Add	0	0	0	0	1000	2000	2000	5000		
Served by Third Party Service	Indirect - Business	0	Cumulative	0	0	0	0	2	8	18	30		
Providers	manect - Basiness		Net Add	0	0	0	0	2	6	10	12		
	Indirect - Com. Anchor Inst.	0	Cumulative	0	0	0	0	0	2	3	5		
	marrect - com. Anchor mst.	0	Net Add	0	0	0	0	0	2	1	2		

Broadband Subscriber Estimates

Name of Service Offering	Containing Trans	Year 0	Cumulative/	Cumulative/ Year 1					Ye	ar 2		Year 3				Yea		
	Customer Type	Year U	Net Add	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	
Higher Education - ARE-ON Location	Community Anchor Inst.		Cumulative	0	6	11	16	21	27	33	33	33	33	33	33	33	33	
Location	community Anchor mist.		Net Add	0	6	5	5	5	6	6	0	0	0	0	0	0	0	
Healthcare Provider Hub - ARE-ON	Community Anchor Inst.		Cumulative	0	8	8	8	8	8	8	8	8	8	8	8	8	8	
Connection			Net Add	0	8	0	0	0	0	0	0	0	0	0	0	0	0	
Healtchare Provider 100 mbps	Community Anchor Inst.		Cumulative	0	0	7	7	7	7	7	7	7	7	7	7	8	8	
MPLS			Net Add	0	0	7	0	0	0	0	0	0	0	0	0	1	0	
Healthcare Provider 20 mbps MPLS	Community Anchor Inst.		Cumulative	0	0	0	15	15	15	15	15	15	15	15	15	15	15	
	Community Anchor mst.		Net Add	0	0	0	15	0	0	0	0	0	0	0	0	0	0	
Healthcare Provider 10 mbps MPLS	Community Anchor Inst.		Cumulative	0	0	0	22	59	59	59	59	59	59	59	59	61	61	
			Net Add	0	0	0	22	37	0	0	0	0	0	0	0	2	0	
Healthcare Provider 1.5 mbps	Community Anchor Inst.		Cumulative	0	0	0	0	0	35	69	111	154	154	154	154	151	151	
MPLS			Net Add	0	0	0	0	0	35	34	42	43	0	0	0	-3	0	
Broadband Service Equipment	Community Anchor Inst.		Cumulative	0	198	198	198	198	198	198	198	198	198	198	198	198	198	
broudband bervice Equipment			Net Add	0	198	0	0	0	0	0	0	0	0	0	0	0	0	
	Residential/Individual		Total															
Cumulative Totals (excluding	Business		Total				l	l	l	l					l		<u> </u>	
Indirect)	Community Anchor Inst.		Total	0	212	224	266	308	349	389	431	474	474	474	474	474	474	
	Third Party Service Provider		Total															
Cumulative Totals (including	Residential/Individual		Total				l	l	İ									
Indirect)	Business		Total															
indirect)	Community Anchor Inst.		Total	0	212	224	266	308	349	389	431	474	474	474	474	474	474	

Explanation of Methodology:

Table of Customer Types

Residential/Individual
Business
Community Anchor Inst.
Third Party Service Provider
Indirect - Res./Ind.
Indirect - Business
Indirect - Com. Anchor Inst.

These subscriber estimates are based solely on community anchor subscribers, as this middle mile network will use Internet Service Providers selected through a competitive bid process to provide broadband services to community anchor institutions.

In Years 1, 2, and 3: All community anchor institutions are included at the time they receive their bandwidth and/or equipment from this project.

Tertiary Sites

Years 4-8:

By building a statewide comprehensive network for healthcare, higher education, public safety, and research, this project anticipates new subscribers to join the network for shared applications and broadband benefits.

Year 4, Quarter 4:

The UAMS Centers on Aging and the UAMS Center for Distance Health plan to offer interactive video services to nursing home and long-term care facilities across Arkansas near this estimated time. The expansion of this network is predicted to reach half of the nursing home and longterm care facilities in Arkansas (412 total, 206 predicted subscribers). Since these institutions are often privately owned, the project estimates to recruit half of these facilities by this time.

Year 6, Quarter 4:

The Arkansas K-12 public school system has expressed past interest in joining this network for healthcare education and in-school healthcare. It is estimated the entire statewide school system will join the network at one time, with a predicted timeline of Year 6, Quarter 4. The Arkansas K-12 public school system operates on the VNet, a statewide broadband network that provides T1 (1.5 Mbps) connectivity to every school in Arkansas. There are 1,072 K-12 schools in Arkansas.

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Year 8, Quarter 4:

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Name of Service Offering	Customer Type	ar 4			Year 5			Year 6				Year 7				Year 8		
Name of Service Offering	customer rype	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
Higher Education - ARE-ON	Community Anchor Inst.	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Location	Community Anchor list.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Healthcare Provider Hub - ARE-ON	Community Anchor Inst.	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Connection	community Anchor mst.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Healtchare Provider 100 mbps	Community Anchor Inst.	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12
MPLS	Community Anchor list.	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0
Healthcare Provider 20 mbps MPLS	Community Anchor Inst.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Theatthcare Fronder 20 mbps MFLS	Community Anchor mst.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Healthcare Provider 10 mbps MPLS	Community Anchor Inst.	61	61	64	64	64	64	67	67	67	67	70	70	70	70	73	73	73
Theatthcare Frowider 10 mbps wir LS	Community Anchor mist.	0	0	3	0	0	0	3	0	0	0	3	0	0	0	3	0	0
Healthcare Provider 1.5 mbps	Community Anchor Inst.	151	357	353	353	353	353	349	349	349	1421	1417	1417	1417	1417	1413	1413	1413
MPLS	community Anchor mst.	0	206	-4	0	0	0	-4	0	0	1072	-4	0	0	0	-4	0	0
Broadband Service Equipment	Community Anchor Inst.	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198
broadband Service Equipment	Community Anchor mist.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Residential/Individual																	
Cumulative Totals (excluding	Business		<u> </u>		<u> </u>					l		l L				l 		
Indirect)	Community Anchor Inst.	474	680	680	680	680	680	680	680	680	1752	1752	1752	1752	1752	1752	1752	1752
	Third Party Service Provider			1														
Cumulative Totals (including	Residential/Individual					<u> </u>						 						
Indirect)	Business]]	Ī													
indirect)	Community Anchor Inst.	474	680	680	680	680	680	680	680	680	1752	1752	1752	1752	1752	1752	1752	1752

Table of Customer Types

Residential/Individual Business Community Anchor Inst. Third Party Service Provider Indirect - Res./Ind. Indirect - Business Indirect - Com. Anchor Inst.

Name of Service Offering	Customer Type	Qtr 4
Higher Education - ARE-ON Location	Community Anchor Inst.	33 0
Healthcare Provider Hub - ARE-ON Connection	Community Anchor Inst.	8 0
Healtchare Provider 100 mbps MPLS	Community Anchor Inst.	12 0
Healthcare Provider 20 mbps MPLS	Community Anchor Inst.	15 0
Healthcare Provider 10 mbps MPLS	Community Anchor Inst.	73 0
Healthcare Provider 1.5 mbps MPLS	Community Anchor Inst.	1515 102
Broadband Service Equipment	Community Anchor Inst.	198 0
	Residential/Individual	
Cumulative Totals (excluding	Business	
Indirect)	Community Anchor Inst.	1854
	Third Party Service Provider	
Computation Tatala (including	Residential/Individual	
Cumulative Totals (including Indirect)	Business	
manecty	Community Anchor Inst.	1854

Table of Customer Types

Residential/Individual	
Business	
Community Anchor Inst.	
Third Party Service Provider	
Indirect - Res./Ind.	
Indirect - Business	
Indirect - Com. Anchor Inst.	

Name of Service Offering	Customer Type	Year 0	Cumulative/		Yea	ar 1			Yea	ar 2			Ye	ar 3			Ye
Name of Service Offering	customer type	Teal U	Net Add	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
			state licen Prim Year It is e instit	e end of the wide level. sed ambula ary and Sec 4-8 expected the cutions may width and r	Since main nce service ondary Sit at as broad need incre	ny ambulai es in Arkan es dband need eased band	nce compa Isas. ds grow an dwidth. Pr	nies in Arka d the numl edicted at a	ansas are p ber of cons a 5% annua	rivately ov umers grov Il increase	nce comp vned, the p w at partici at primary	project estin ipating com and second	mates 50% nmunity an dary sites, s	oposed am subscriber chor institu sites are up	bulance set s among th utions, som	e 203 e	
			The p narra como subs	s on further project lays ative respon e, possibly n cribers are a public librar	the found ises, the p nore withi is follows:	ation for so roject has i n this eight 29 charter	identified a t-year estir schools, 3	number o nation peri 05 private	f communi od. These schools, 75	ty anchor i additional 8 private p	nstitutions communit provider cli	s that may y anchor in nics,	be included Istitutions 1	l in the net	work in the	years to	

Name of Service Offering	Customer Tune	ar 4			Yea	ar 5			Yea	ar 6			Yea	ar 7			Yea	ar 8
Name of Service Oriening	Customer Type	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3

Name of Service Offering	Customer Type	Qtr 4



Proposed Funded Service Area Overview



The Arkansas Health Care, Higher Education, Public Safety & Research Integrated Broadband Initiative

SITES

Primary AREON Site Two-Year College or Four-Year University

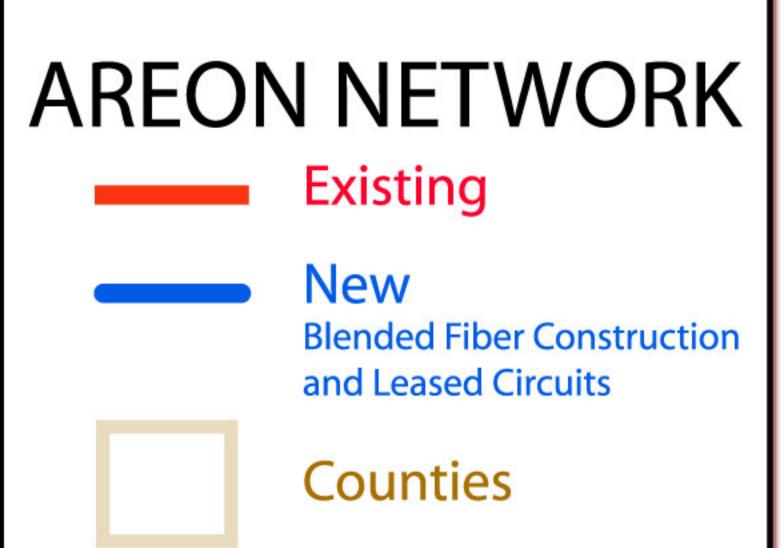
Primary Atom Site

Secondary Site

Tertiary Site

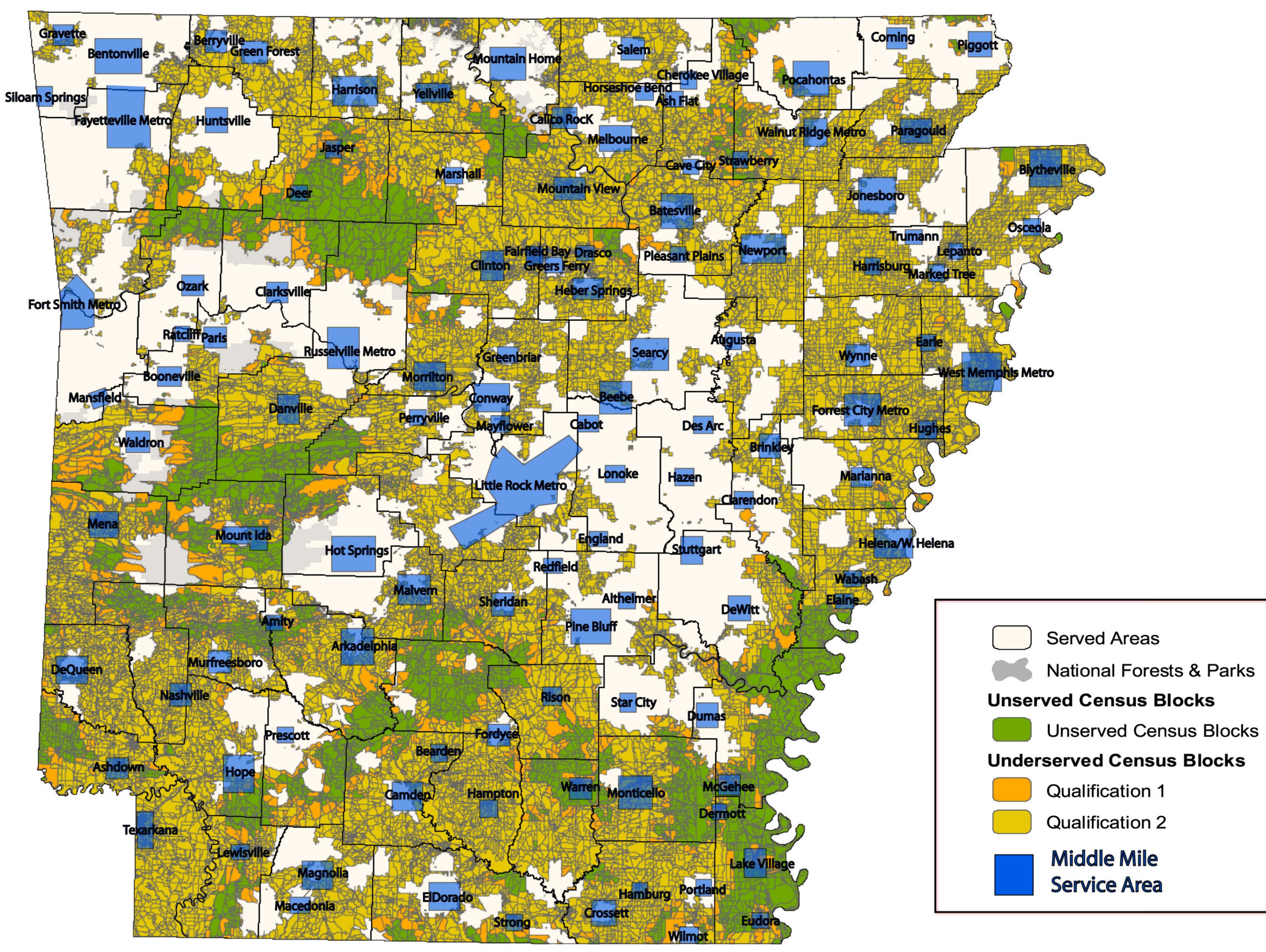
Leased Circuits

Middle Mile Service Area





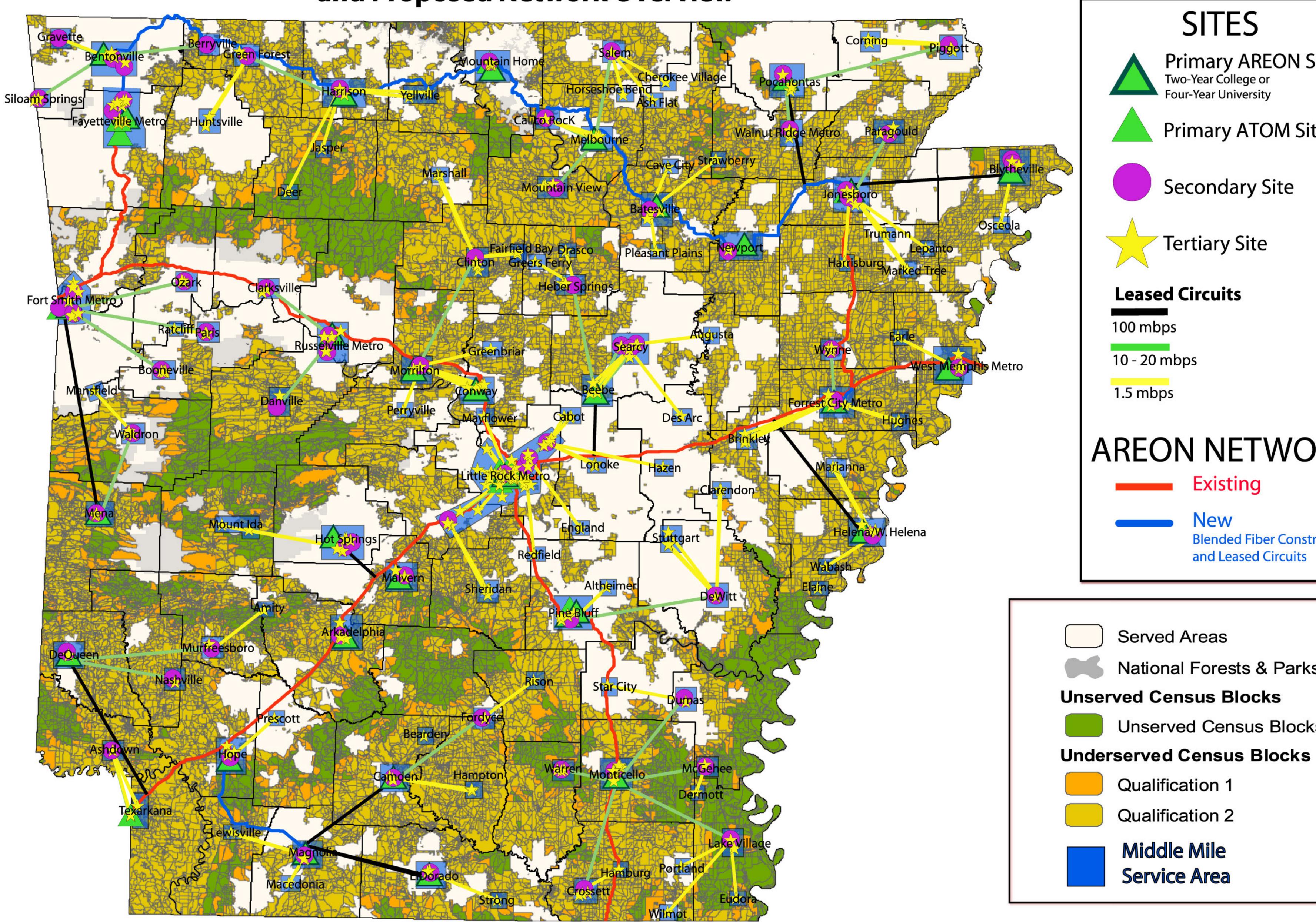
Middle Mile Service Areas and Unserved/Underserved Areas



The Arkansas Health Care, Higher Education, Public Safety & Research Integrated Broadband Initiative



Middle Mile Service Areas, Unserved/Underserved Areas and Proposed Network Overview



The Arkansas Health Care, Higher Education, Public Safety & Research Integrated Broadband Initiative

SITES

Primary AREON Site Two-Year College or Four-Year University

Primary ATOM Site

Secondary Site

Tertiary Site

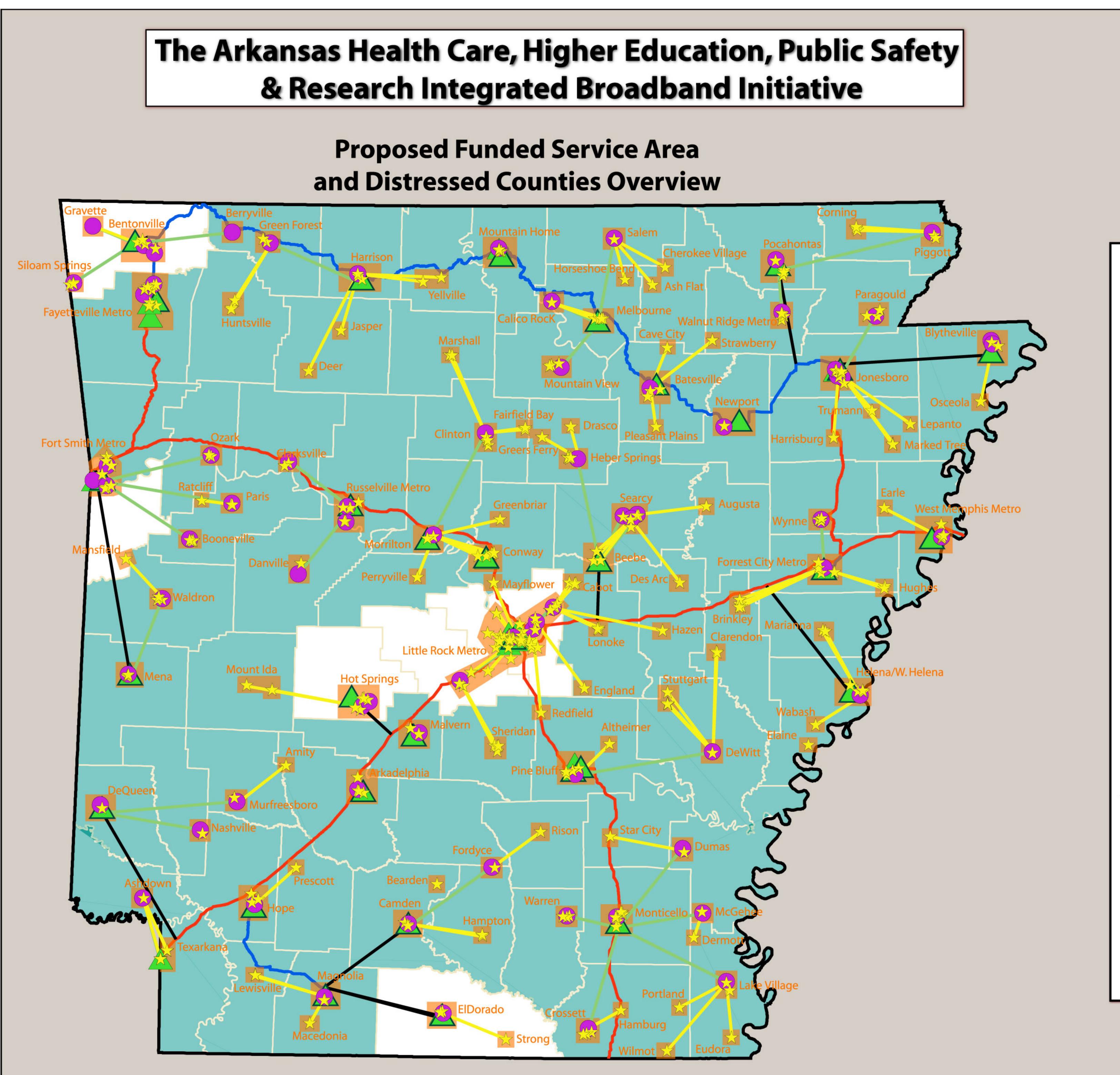
AREON NETWORK

Existing

New **Blended Fiber Construction** and Leased Circuits

National Forests & Parks

Unserved Census Blocks



SITES

Primary AREON Site Two-Year College or Four-Year University

Primary ATOM Site

Secondary Site

Tertiary Site

Leased Circuits

100 mbps 10 - 20 mbps 1.5 mbps

> Middle Mile Service Area

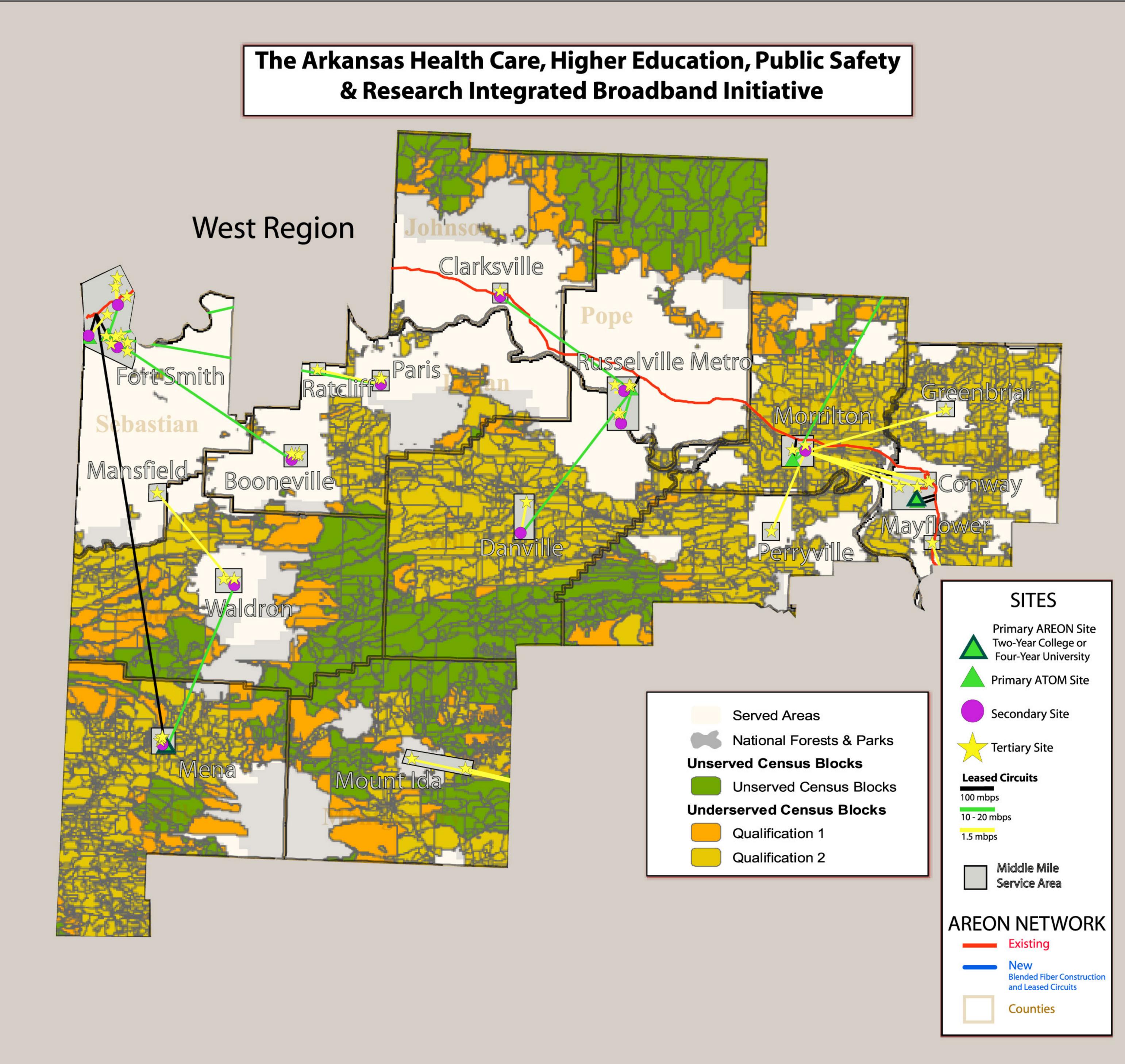
AREON NETWORK

Existing

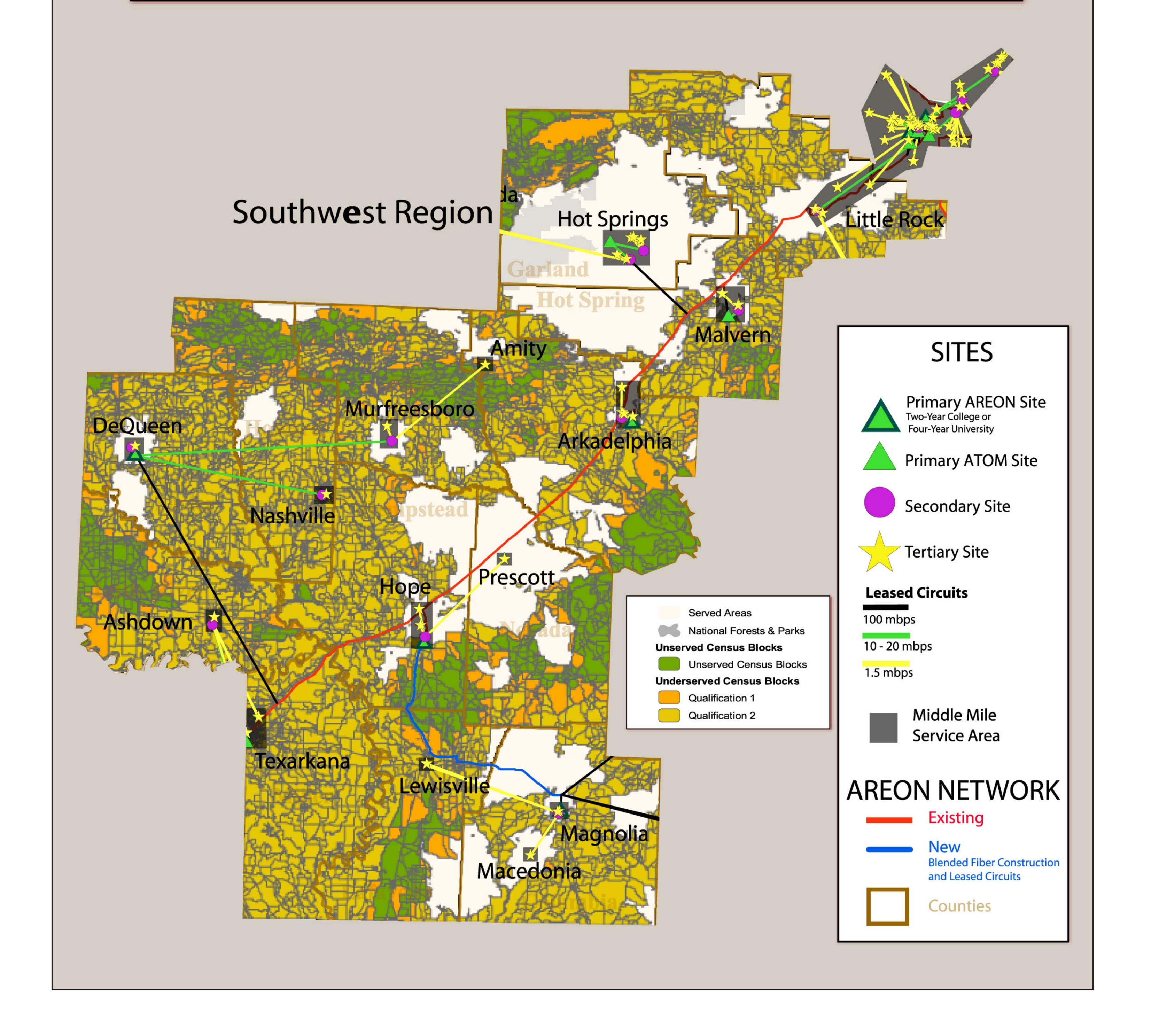
New **Blended Fiber Construction** and Leased Circuits

Counties

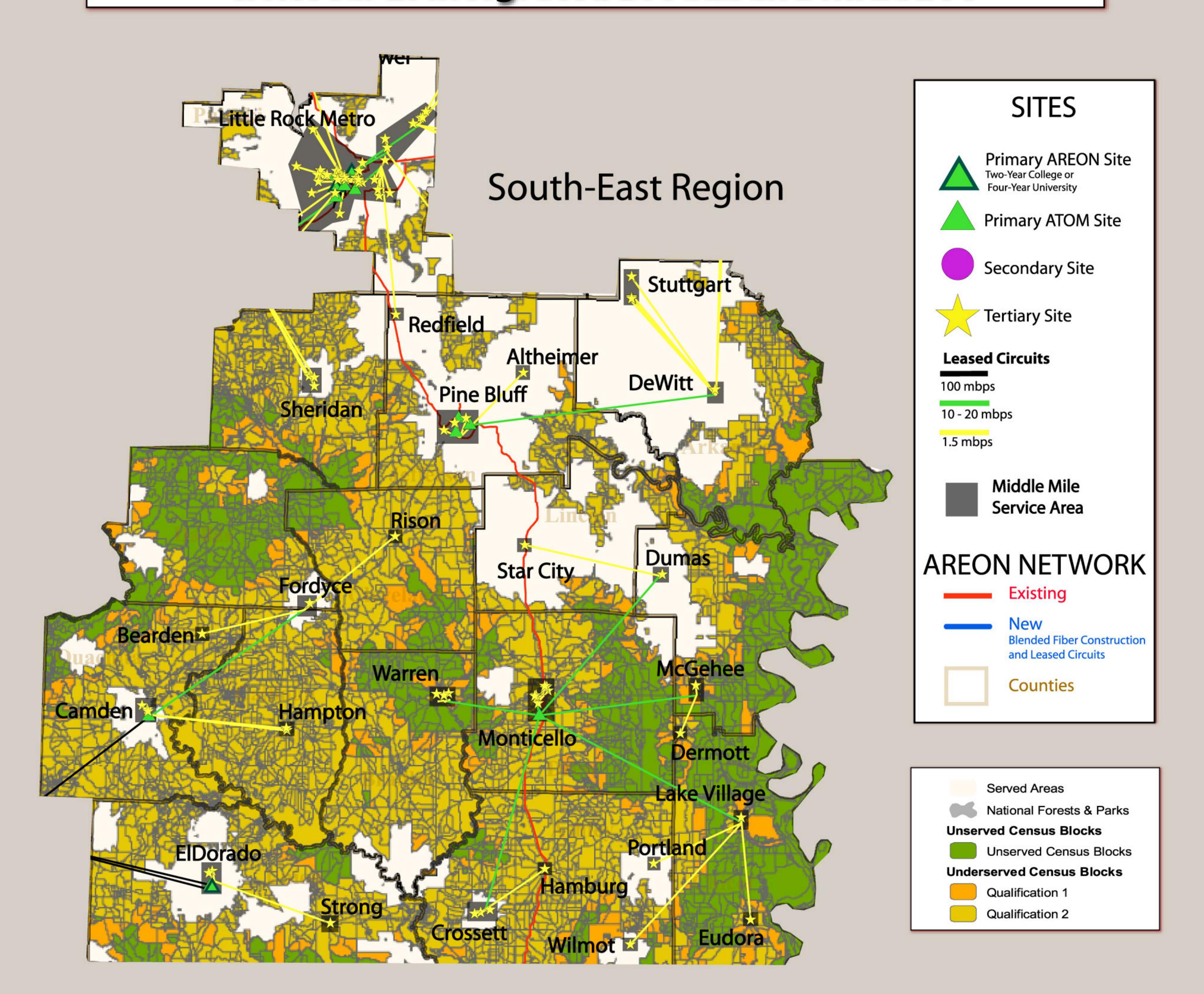
Economically **Distressed** Areas

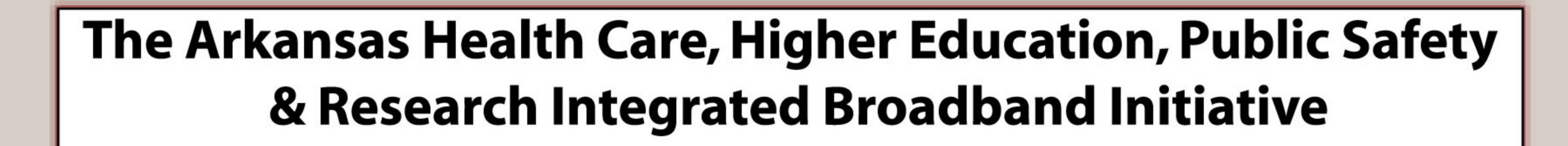


The Arkansas Health Care, Higher Education, Public Safety & Research Integrated Broadband Initiative



The Arkansas Health Care, Higher Education, Public Safety & Research Integrated Broadband Initiative

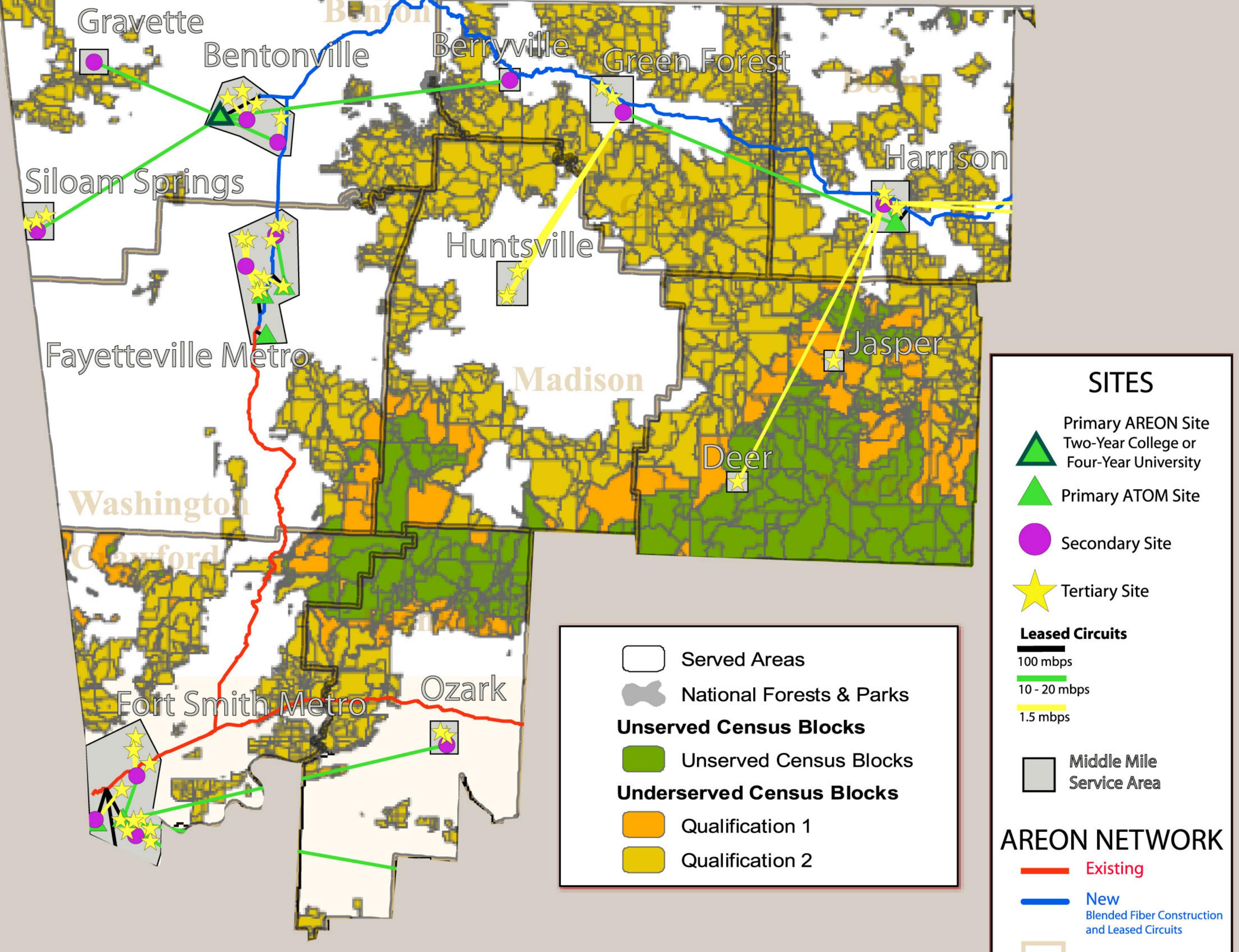




Northwest Region





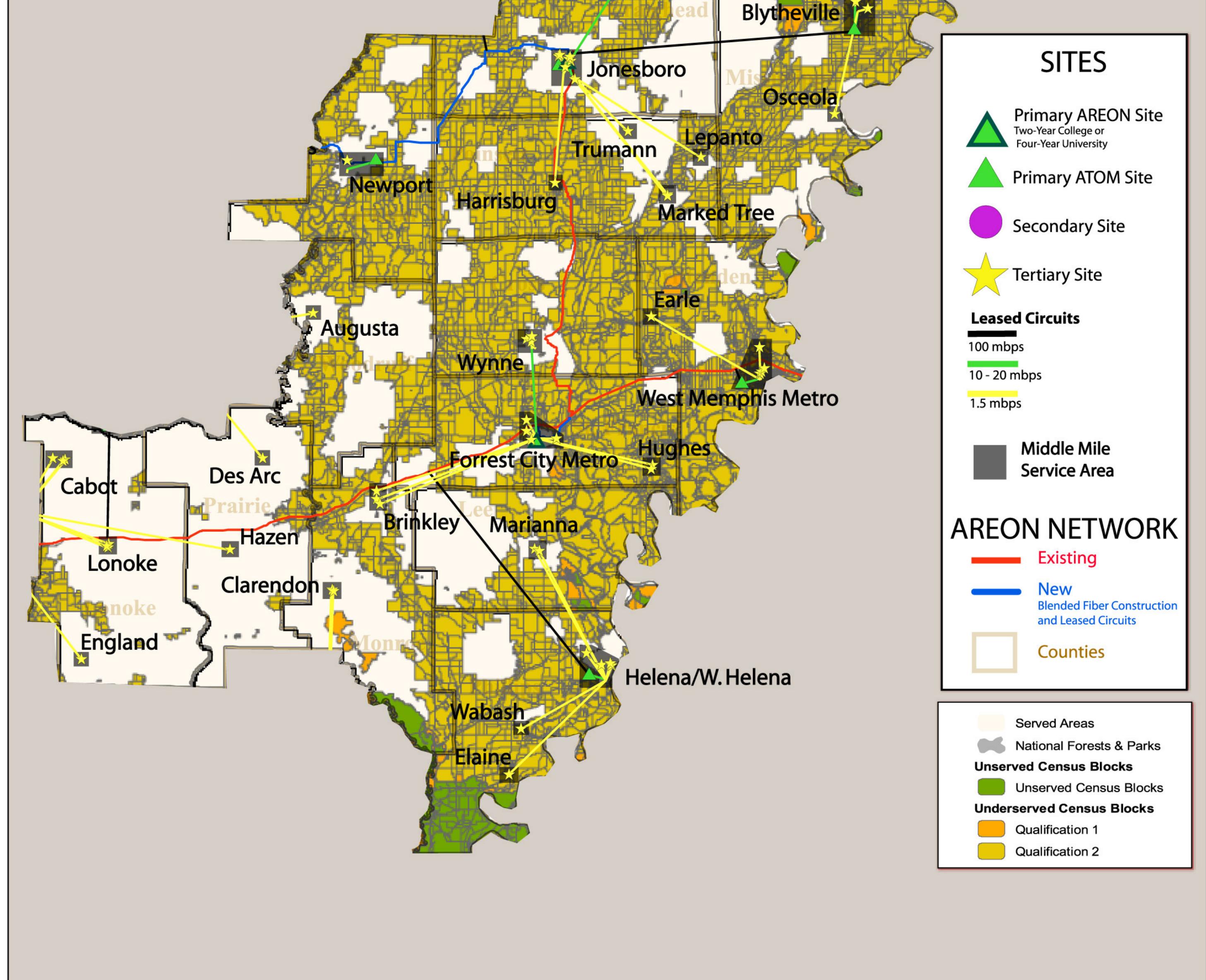


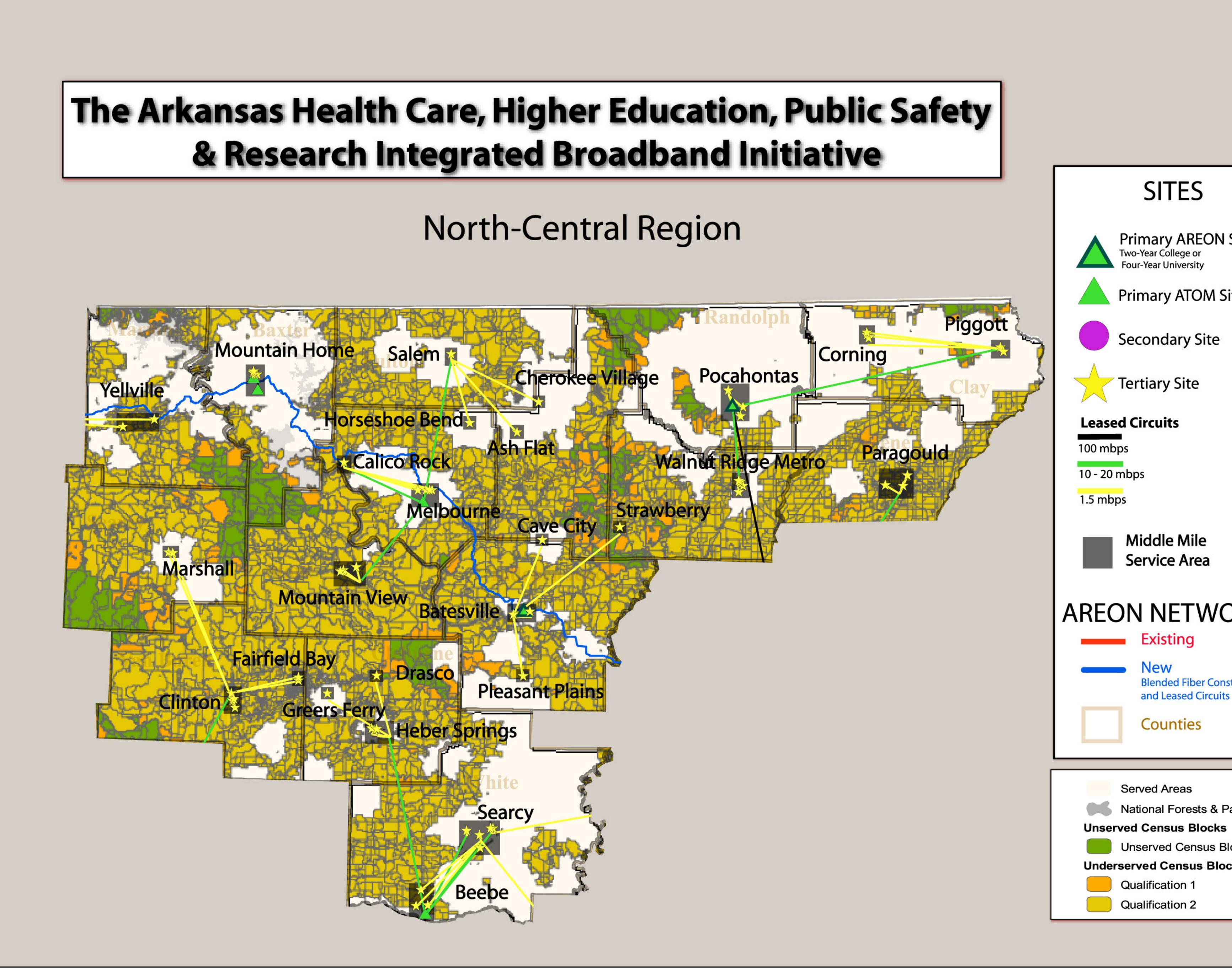
Counties

The Arkansas Health Care, Higher Education, Public Safety & Research Integrated Broadband Initiative

North-East Region







SITES

Primary AREON Site

Primary ATOM Site

Secondary Site

Middle Mile Service Area

AREON NETWORK

Blended Fiber Construction and Leased Circuits

Counties

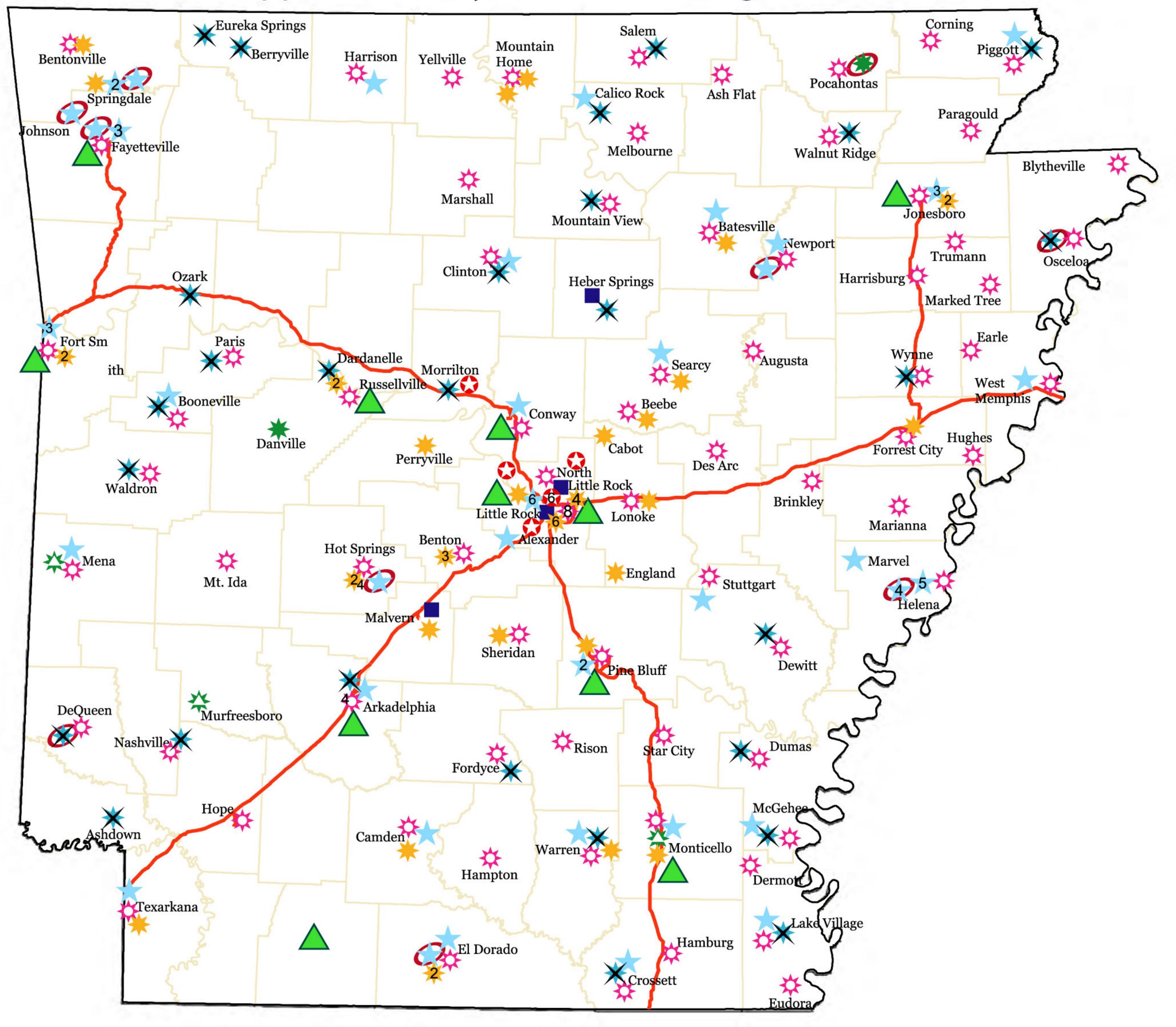
National Forests & Parks

Unserved Census Blocks

Underserved Census Blocks

The Arkansas Health Care, Higher Education, Public Safety & Research Integrated Broadband Initiative

Applicant's / Key Partner's Existing Networks



- Department of Health Bioterrorism Network (At-Risk Hospitals)
- X Department of Health Bioterrorism Network (Critical Access Hospitals)
- Department of Health Local Health Clinic Network
- K Department of Human Services Family Clinic
- Versity of Arkansas for Medical Sciences Network
- Baptist Health

O Denotes for-profit status.

St. Vincents Medical

AREON fiber

Four-Year University

Please note: This map depicts currently existing broadband networks found among the community anchor insitutions within the project. Since FCC Rural Health Care Pilot Project award funding is pending adminstrative approval to begin work, this map does not depict the 316 sites specifically inclusive of that effort. Instead, the FCC award was built upon 174 existing network sites, which are illustrated in this map, alongside other networks that have developed since the 2007 FCC proposal.

BTOP Comprehensive Community Infrastructure Pro Forma Financial Projections

Please complete the Income Statement, Balance Sheet, Cash Flows, and NPV-IRR Table worksheets. Key assumptions used to formulate these financial projections should be listed in the Key Assumptions worksheet. Please note that these are **project-specific** projections, in contrast to the historical financial information which is provided at the organizational level.

<u>Please refer to the Comprehensive Community Infrastructure Grant Guidance for</u> <u>detailed instructions on the completing this upload.</u>

Applicants are required to provide this upload as an Excel file, and not to convert it to a PDF prior to upload. Applicants may make adjustments to the format of the templates as necessary to provide the most effective presentation of the data for their specific project, but should not remove major headings (*e.g.* Revenues and Expenses on the Income Statement) or provide less detailed information than would be required to complete the provided templates.

Income Statement

								Forecas	st P	eriod						
		Year 1		Year 2		Year 3		Year 4		Year 5		Year 6		Year 7		Year 8
Revenues																
Broadband Offerings																
Wholesale Data	\$		\$		\$		\$		\$		\$		\$		\$	
Retail Data	\$		\$		\$		\$		\$		\$		\$		\$	
Dark Fiber	\$		\$		\$		\$		\$		\$		\$		\$	
Collocation	\$		\$		\$		\$		\$		\$		\$		\$	
Other (list specific services)	\$		\$		\$		\$		\$		\$		\$		\$	
Other Network Driven Revenues	<u> </u>		<u> </u>		<u> </u>		¥		<u> </u>		<u> </u>		- <u>*</u>			
Video Services	\$		\$		\$		\$		\$		\$		\$		\$	
Voice Services (local/toll/long distance)	\$		\$		\$		\$		\$		\$		\$		\$	
Other (list specific services)			\$		\$		\$		\$		\$		\$		\$	
Universal Service Fund	\$ \$		\$		\$		\$		\$		\$		ŝ		\$	
Installation Revenues	\$		\$		\$		\$		\$		\$		\$		\$	
Other Revenues	\$	35,740,177	\$	50,589,419	Ψ	16,134,640	Ψ	27,978,845	\$	28,216,666		28,456,507	\$	28,698,387	\$	28,942,324
	Ψ	00,140,111	Ψ.	00,000,410	Ψ.	10,104,040	Ψ.	21,010,040	Ψ.	20,210,000	Ψ	20,400,001	Ψ.	20,000,007	Ψ.	20,042,024
Total Revenues	\$	35,740,177	\$	50 589 419	\$	16,134,640	\$	27 978 845	\$	28,216,666	\$	28,456,507	\$	28,698,387	\$	28,942,324
	Ψ	00,740,177	Ψ	30,303,413	Ψ	10,134,040	Ψ	21,010,040	Ψ_	20,210,000	Ψ	20,430,307	Ψ	20,000,007	Ψ_	20,042,024
Expenses																
Expenses																
Backhaul	\$		\$		\$		\$		\$		\$		\$		\$	
Network Maintenance/Monitoring	\$	100,000	\$		\$		φ \$	300,000	\$	300,000	φ \$	300,000	\$	300,000	\$	300,000
Utilities	\$	100,000	\$		\$		\$	300,000	\$	300,000	φ \$		\$		\$	300,000
Leasing	\$		\$		\$		\$		\$		\$		\$		\$	
Sales/Marketing	\$		\$		\$		γ \$		\$		\$		\$		\$	
Customer Care	\$	500,000	φ		э \$		э \$		ب \$		ب \$		φ \$		э \$	
Billing	\$	500,000	\$		ծ \$		<u>ә</u> \$		\$ \$		ֆ \$		⊅ \$		- <u>⊅</u> \$	
Corporate G&A	\$	6,142,072	<u> </u>	3,887,818	ې \$	702 771	ֆ \$	533,698	ب \$	548,245	φ \$	562.220	φ \$	570 661	э \$	-
Other Operating Expense	<u>\$</u>	28,998,105	\$ \$	46,701,601	⊅ \$	783,771 15,350,869	⊅ \$	24,476,009	ֆ \$	24,476,009	ֆ \$	563,228 24,476,009	⊅ \$	578,661 24,476,009	φ \$	594,557 24,476,009
	φ	20,990,105	φ	46,701,601	Þ	15,350,669	Φ	24,476,009	<u> </u>	24,476,009	φ	24,476,009	Ð	24,476,009	Þ	24,476,009
Total	\$	35,740,177	\$	50,589,419	\$	16,134,640	\$	25,309,707	\$	25,324,254	\$	25,339,237	\$	25,354,670	\$	25,370,566
Totar	φ	35,740,177	φ	50,569,419	φ	10,134,040	φ	25,309,707	φ	25,524,254	φ	25,559,257	φ	25,554,070	φ	25,570,500
EBITDA	¢		\$		\$		\$	2,669,139	\$	2,892,412	\$	3,117,270	¢	3,343,718	¢	3,571,758
EBIIDA	φ		φ		φ		φ	2,009,139	<u>–</u> –	2,092,412	þ	3,117,270	φ_	3,343,718	φ_	3,371,738
Depresiation	¢	1 225 270	¢	2 620 700	¢	2 667 792	¢	2 667 792	¢	2 667 700	¢	2 667 700	¢	2 667 700	¢	2 667 700
Depreciation	\$	1,335,276	\$ \$	2,639,782	\$ \$	2,667,782	\$ \$	2,667,782	\$ \$	2,667,782	\$ \$	2,667,782	\$	2,667,782	\$	2,667,782
Amortization	<u></u>		\$		Þ		Þ		<u> </u>		Þ		\$		<u> </u>	
Formings Defers Interest and Torres	¢	(1,335,276)	¢	(2,639,782)	¢	(2,667,782)	6	4 057		004.000	<u>م</u>	440 400	¢	675 000	¢	903,976
Earnings Before Interest and Taxes	\$	(1,335,276)	\$	(2,639,782)	\$	(2,667,782)	\$	1,357	\$	224,630	\$	449,488	\$	675,936	\$	903,976
Interest Evenes	¢		¢		¢		6				<u>م</u>		¢		¢	
Interest Expense	\$		\$		\$	-	\$		\$		\$		\$		\$	
		(4.005.070)		(0.000 700)	~	(0.007.700)	<u> </u>		<u> </u>		<u> </u>	440.400		075 000	<u> </u>	
Income Before Taxes	\$	(1,335,276)	\$	(2,639,782)	\$	(2,667,782)	\$	1,357	\$	224,630	\$	449,488	\$	675,936	\$	903,976
	¢		_		^		<u>^</u>		•				_			
Property Tax	\$		\$		\$		\$		\$		\$		\$		\$	
Income Taxes	\$		\$		\$		\$		\$		\$		\$		\$	
Net Income	\$	(1,335,276)	\$	(2,639,782)	\$	(2,667,782)	\$	1,357	\$	224,630	\$	449,488	\$	675,936	\$	903,976

Balance Sheet

								Forecas	st Pe	eriod						
Assets_		Year 1		Year 2	Γ	Year 3	Γ	Year 4		Year 5		Year 6		Year 7		Year 8
Current Assets																
Cash	\$	-	\$	-	\$	-	\$	2,669,139	\$	2,892,412	\$	3,117,270	\$	3,343,718	\$	3,571,758
Marketable Securities	\$		\$		\$		\$	´´	\$		\$		\$	``	\$	<i>-</i>
Accounts Receivable	\$		\$		\$		\$		\$		\$		\$		\$	
Notes Receivable	\$		\$		\$		\$		\$		\$		\$		\$	
Inventory	\$		\$		\$		\$		\$		\$		\$		\$	
Prepayments	\$		\$		\$		\$		\$		\$		\$		\$	
Other Current Assets	\$		\$		\$		\$		\$		\$		\$		\$	
Total Current Assets	Ŧ	-	\$	-	\$	-	\$	2,669,139	\$	2,892,412	\$	3,117,270	\$	3,343,718	\$	3,571,758
	Ť		Ť		Ť		Ŧ	_,,	Ť	_,,.	Ŧ	-,,	Ŧ	-,	Ť	-,,
Non-Current Assets																
Capital Investments	\$	10.682.208	\$	19.782.980	\$	18.702.474	\$	18.674.474	\$	18.674.474	\$	18,674,474	\$	18.674.474	\$	18,674,474
Amortizable Asset (Net of Amortization)	\$		<u>\$</u>		\$	-	Š	-	Š	-	\$	-	Š	-	Š	
	┢╌╌╴		†		†		†		†		<u> </u>		- <u>*</u>		†- <u>`</u>	
Plant in Service	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Less: Accumulated Depreciation	\$		\$		\$		\$		\$		\$		\$		\$	
Net Plant		-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Other	\$	-	\$	-	\$	-	ŝ	-	\$	-	\$	-	\$	-	\$	-
	<u> </u>		<u> </u>				- <u>*</u>		¥		¥		- <u>*</u>		- <u>*</u>	
Total Non-Current Assets	\$	10,682,208	\$	19,782,980	\$	18,702,474	\$	18,674,474	\$	18,674,474	\$	18,674,474	\$	18,674,474	\$	18,674,474
i otal Non-Current Assets	Ψ															
Total Assets		10,682,208	\$	19,782,980	\$	18,702,474	\$	21,343,613	\$	21,566,886	\$	21,791,744	\$	22,018,192	\$	22,246,232
Total Assets			\$, ,	\$, ,	\$		\$		\$, ,	\$, ,	\$	
Total Assets Liabilities and Owners' Equity		10,682,208 Year 1	\$	19,782,980 Year 2	\$	18,702,474 Year 3	\$	21,343,613 Year 4	\$	21,566,886 Year 5	\$	21,791,744 Year 6	\$	22,018,192 Year 7	\$	22,246,232 Year 8
Total Assets			\$, ,	\$, ,	\$		\$		\$, ,	\$, ,	\$	
Total Assets Liabilities and Owners' Equity Liabilities			\$, ,	\$, ,	\$		\$		\$, ,	\$, ,	\$	
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities	\$	Year 1		Year 2		Year 3		Year 4		Year 5		Year 6		Year 7		Year 8
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable	\$		\$, ,	\$, ,	\$		\$		\$, ,	\$, ,	\$	
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable	\$	Year 1	\$	Year 2	\$	Year 3	\$	Year 4	\$	Year 5	\$	Year 6	\$	Year 7		Year 8
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable Other Current Liabilities	\$	Year 1 10,682,208	\$ \$ \$	Year 2	\$ \$	Year 3 18,702,474	\$	Year 4 18,674,474	\$	Year 5 18,674,474	\$ \$	Year 6	\$	Year 7 18,674,474	\$	Year 8 18,674,474
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable	\$	Year 1	\$	Year 2	\$	Year 3	\$	Year 4	\$	Year 5	\$	Year 6	\$	Year 7	\$	Year 8
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable Other Current Liabilities Total Current Liabilities	\$	Year 1 10,682,208	\$ \$ \$	Year 2	\$ \$	Year 3 18,702,474	\$	Year 4 18,674,474	\$	Year 5 18,674,474	\$ \$	Year 6	\$	Year 7 18,674,474	\$	Year 8 18,674,474
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable Other Current Liabilities Total Current Liabilities Long-Term Liabilities	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Year 1 10,682,208	\$ \$ \$	Year 2	\$ \$ \$ \$	Year 3 18,702,474	\$ \$ \$ \$	Year 4 18,674,474	\$ \$ \$ \$	Year 5 18,674,474	\$ \$	Year 6	\$ \$ \$	Year 7 18,674,474	\$ \$ \$	Year 8 18,674,474
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Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable Other Current Liabilities Long-Term Liabilities Long Term Notes Payable Other Long Term Liabilities	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Year 1 10,682,208	\$ \$ \$ \$ \$ \$ \$	Year 2	\$ \$ \$ \$ \$ \$	Year 3 18,702,474	\$ \$ \$ \$ \$	Year 4 18,674,474	\$ \$ \$ \$	Year 5 18,674,474	\$ \$ \$ \$ \$ \$ \$	Year 6	\$ \$ \$ \$	Year 7 18,674,474	\$ \$ \$ \$ \$	Year 8 18,674,474
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable Other Current Liabilities Total Current Liabilities Long-Term Liabilities Long Term Notes Payable	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Year 1 10,682,208	\$ \$ \$ \$	Year 2	\$ \$	Year 3 18,702,474	\$ \$ \$	Year 4 18,674,474	\$ \$ \$ \$	Year 5 18,674,474	\$ \$ \$	Year 6	\$ \$ \$	Year 7 18,674,474	\$ \$ \$ \$	Year 8 18,674,474
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable Other Current Liabilities Long-Term Liabilities Long Term Notes Payable Other Long Term Liabilities	\$ \$ \$ \$ \$ \$ \$	Year 1 10,682,208	\$ \$ \$ \$ \$ \$	Year 2	\$ \$ \$ \$ \$ \$	Year 3 18,702,474	\$ \$ \$ \$ \$	Year 4 18,674,474	\$ \$ \$ \$	Year 5 18,674,474	တ္ တ တ တ	Year 6	\$ \$ \$ \$	Year 7 18,674,474	\$ \$ \$ \$ \$	Year 8 18,674,474
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable Other Current Liabilities Total Current Liabilities Long-Term Liabilities Long Term Notes Payable Other Long Term Liabilities Total Long-Term Liabilities Total Long-Term Liabilities	\$ \$ \$ \$ \$ \$ \$	Year 1 10,682,208 - - 10,682,208 - - - - - - - - -	\$ \$ \$ \$ \$ \$	Year 2 19,782,980 - - 19,782,980 - - - -	\$ \$ \$ \$ \$	Year 3 18,702,474 - - 18,702,474 - - - - - - - - -	\$ \$ \$ \$ \$	Year 4	\$ \$ \$ \$ \$	Year 5	တ္ တ တ တ	Year 6	\$ \$ \$ \$ \$	Year 7 18,674,474 	\$ \$ \$ \$ \$	Year 8 18,674,474
Total Assets Liabilities and Owners' Equity Liabilities Current Liabilities Accounts Payable Notes Payable Other Current Liabilities Total Current Liabilities Long-Term Liabilities Long Term Notes Payable Other Long Term Liabilities Total Long-Term Liabilities Total Long-Term Liabilities Total Liabilities Total Liabilities	\$ \$ \$ \$ \$ \$ \$ \$	Year 1 10,682,208 - - 10,682,208 - - - - - - - - -	\$ \$ \$ \$ \$ \$	Year 2 19,782,980 - - 19,782,980 - - - -	\$ \$ \$ \$ \$ \$	Year 3 18,702,474 - - 18,702,474 - - - - - - - - -	\$ \$ \$ \$ \$ \$	Year 4	\$ \$ \$ \$ \$	Year 5	\$ \$ \$ \$ \$ \$ \$ \$ \$	Year 6	\$ \$ \$ \$ \$	Year 7 18,674,474 	\$ \$ \$ \$ \$	Year 8 18,674,474
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Statement of Cash Flows

				Foi	ecast F	Period						
	Year 1	Year 2	Year 3	Year 4		Year 5		Year 6		Year 7		Year 8
Beginning Cash	\$-	\$-	\$	- \$	- \$	2,669,139	\$	5,561,551	\$	8,678,821	\$	12,022,539
CASH FLOWS FROM OPERATING ACTIVITIES:												
Net Income	(1,335,276)	(2,639,782)	(2,667,782	2) 1,	357	224,630		449,488		675,936		903,976
Adjustments to Reconcile Net Income to Net Cash Provided by Operating Activities												
Add: Depreciation	1,335,276	2,639,782	2,667,782	2,667,	782	2,667,782		2,667,782		2,667,782	1	2,667,782
Add: Amortization	-	-		-		-					1	
Changes in Current Assets and Liabilities:											1	
Marketable Securities											+	
Accounts Receivable	-	-									t	
Inventory											1	
Prepayments				-							1	
Other Current Assets											1	
Accounts Payable	-	-									1	
Other Current Liabilities					-	-	<u> </u>	-		-	<u></u>	
Net Cash Provided (Used) by Operations	\$-	\$-	\$	- \$ 2,669,	139 \$	2,892,412	\$	3,117,270	\$	3,343,718	\$	3,571,758
CASH FLOWS FROM INVESTING ACTIVITIES:												
Capital Expenditures	-	-		-	-	-		-		-		-
Amortizable Asset (Net of Amortization)	-	-		-	-	-		-	1	-	Τ	-
Long-Term Investments				-		-		-		-	_	-
Net Cash Used by Investing Activities	\$-	\$-	\$	- \$	- \$	-	\$	-	\$	-	\$	-
CASH FLOWS FROM FINANCING ACTIVITIES:												
Notes Receivable						-					+	-
Notes Payable	-							-				
Principal Payments												
New Borrowing	-			-								-
Additional Paid-in Capital				-		-	 	-				-
Additions to Patronage Capital Credits	-			-		-	 	-			 	-
Payment of Dividends	-					-		-				
Net Cash Used by Investing Activities	\$-	\$-	\$	- \$	- \$	-	\$	-	\$	-	\$	-
Net Increase (Decrease) in Cash	\$-	\$-	\$	- \$ 2,669,	139 \$	2,892,412	\$	3,117,270	\$	3,343,718	\$	3,571,758
			1									

*Builds a cash reserve to begin upgrading equipment in year 9

NPV/IRR Table

	Net Present	Internal Rate of
	Value	Return
Without BTOP Funding	-\$75,351,149.75	-33.47%
With BTOP Funding*	\$13,407,052.81	#NUM!

*With no initial outlay of funds, we can not calculate an IRR for the "With BTOP Funding" section

Cash Flows withou \$(35,740,177.00) \$	(50,589,419.00) \$(16,134,640.00) \$	2,669,139 \$	2,892,412 \$	3,117,270 \$	3,343,718 \$3,571,758
Cash Flows with F \$ - \$	- \$ - \$	2,669,139 \$	2,892,412 \$	3,117,270 \$	3,343,718 \$3,571,758

Revenue Assumptions	
Factor	Specific Metric Used in Analysis
Customers Passed	
Anchor Institutions - Segment A	Health Information Fee
Anchor Institutions - Segment B	
Businesses	
Households	
Last Mile Providers	
Other	
Take Rate (should likely vary across 8-Y	ear Forecast)
Anchor Institutions - Segment A	100%
Anchor Institutions - Segment B	
Businesses	
Households	
Last Mile Providers	
Direct Customer Connections	
Customer Segment A	
Customer Segment B	
Other	
Average Revenue per User (may vary ac	ross 8-year forecast)
Anchor Institutions - Segment A	\$60,039
Anchor Institutions - Segment B	
Businesses	
Households	
Last Mile Providers	
Other	

Factor	Specific Metric Used in Analysis
Network Expenses	
Backhaul	
Maintenance	\$100,000 for initial software and \$300,000 to extend warranties and continue to monitor network

Utilities	
Leasing	
Depreciation	
Other	
Sales & Marketing	
Advertising	
Commissions	
Salaries	
Other	
Customer Care & Billing	
Systems	\$500,000 for healtchare monitoring center
Personnel	
Other	
General & Administrative	
Professional Services	\$2,692,935 in project management salary costs for the first 3 years, then \$484,898 in salaries for year 4
Insurance	
Non-Network Utilities	
Travel	\$15,000 per year
Supplies	\$23,000 in first year and \$5000 in succeeding years
Miscellaneous	Cost of equipment, circuits, installation fees, subrecipient, and indirect charges
Interest Expenses	
Debt Instrument A	
Debt Instrument B	
Taxes	
Federal Tax Rate	
Other Tax Rates	
<u></u>	

Rationale (Cite Basis)
Transaction Fee for health information exchange based on Vermont experience
All middle-mile institutions in our project have agreed to participate
Revenue from HIE fees, divided among the sites in the network

Rationale (Cite Basis)	

Quote from vendor

12 FTEs in years 1-3 for implementation, then 6 FTEs to maintain project, assuming a 3% growth in salaries in years 4-8

Based on historical data from other programs

Based on quotes and historical data Based on average quotes from vendors, quote from subrecipient and NICRA indirect rate of 26% of eligible costs

Comprehensive Community Infrastructure Key Metrics Dashboard

Please refer to the CCI Grant Guidelines for instructions on completing this form.

Applicant Profile	
Applicant Name	University of Arkansas for Medical Sciences
Title	The Arkansas Healthcare, Higher Education, Public Safety, & Research Integrated Broadband Initiative
Easygrants ID	4493
Headquarters	Little Rock, Arkansas
Size (2009 Data) of Applicant	Current Year Revenues: \$988,358,000
Entity	Employees: 10,552
Technology Type	MPLS clouds, wireless, fiber, and other geographically accessible broadband technologies
Key Partners	Arkansas Research and Education Optical Network, Arkansas Association of Two-Year Colleges, Arkansas Department of Health, Arkansas Department of Human Services, Baptist Health, Arkansas Hospital Association, Arkansas State Library, Community Health Centers of Arkansas

Project Economics			
Budget Information		Project Financials	
Project Budget	\$149,184,650	Project Revenues (Yr 8)	\$28,942,324
Federal Contribution (%)	68.7%	Net Income and Margin (Yr 8)	\$903,976 (3.12337%)
Cash Match Amount (%)	0.06%	EBITDA and Margin (Yr 8)	\$3,571,758 (12.34095%)
In Kind Match Amount (%)	31.24%	Rate of Return (w/o BTOP Funds)	-33.47
Middle Mile/Last Mile Budge	t Allocation	Rate of Return (w/ BTOP Funds)	With no initial outlay of funds, IRR cannot be calculated
Middle Mile Percentage (%)	100%	Cost Efficiency	
Last Mile Percentage (%)	0%	Cost per Mile (MM)	\$0
Rural Last Mile Percentage	0%	Cost per Household (LM)	N/A

Market Territory		
Geographic Area(s)	The proposed funded service area exclusively lies within the boundaries of Arkansas and has the potential to meet the broadband needs of citizens in all 75 Arkansas counties.	
Middle Mile Network Composition		
Total Proposed Network Miles (MM only)	 Total Miles: 1874.8 Backbone Miles: 1809.6 Lateral Miles: 65.2 	

Comprehensive Community Infrastructure Key Metrics Dashboard

New Construction Network	Total Miles: 379.8
Miles (MM only)	Backbone Miles: 354.6
	Lateral Miles: 25.2
Existing Applicant Notwork	Total Miles: 1,495
Existing Applicant Network Miles Utilized (MM only)	Backbone Miles: 1,455
whes othized (why only)	Lateral Miles: 40
	Total Miles: 0
Leased Network Miles	Backbone Miles: 0
Utilized (MM only)	Lateral Miles: 0
Underserved/Unserved	Percentage of Backbone Miles in Underserved/Unserved Areas: 46%
	 Percentage of Lateral Miles in Underserved/Unserved Areas: 46%
Existing Customer Base	
Existing Residential/Individual	0
Customers within PFSA	
Existing Business Customers	0
within PFSA	
Existing Community Anchor	Total CAI's: 474
Institution Customers within	Community Colleges: 22
PFSA	 Public Safety Entities: 1
Existing Third Party Service	0
Provider Customers within	
PFSA	
Potential Customer Base	
Market Potential Households	• Total HH's: 548,305
(within PFSA)	
	Located in Underserved/Unserved Areas: 185,324
Market Potential Businesses	Total Businesses: 61,714
(within PFSA)	Located in Underserved/Unserved Areas: 20,204
Market Potential Community	• Total CAI's: 3,926
Anchor Institutions (within	Located in Underserved/Unserved Areas: 1,749
PFSA)	Community Colleges: 0 (all community colleges are included in project)
	Public Safety Entities: 1,119
Market Potential Third Party	Total Third Party Service Providers in PFSA: 62
Service Providers (within	Expressing Commitment or Letter of Interest: 7
PFSA)	
Funded Network Coverage	
Households Connected to	Total Households Connected: 0
Network (via BTOP Funds by	 Located in Underserved/Unserved Areas: 0
end of Year 3)	
Businesses Connected to	Total Businesses Connected: 0
Network (via BTOP Funds by	 Located in Underserved/Unserved Areas: 0
end of Year 3)	
Community Anchor	Total Directly Connected CAI's: 474
Institutions Directly	 Located in Underserved/Unserved Areas: 218
Connected (via BTOP Funds	Community Colleges: 22
by end of Year 3)	Public Safety Entities: 1

Comprehensive Community Infrastructure Key Metrics Dashboard

Projected Subscribers by Year Five	Directly Served by Applicant
	Community Anchor Institutions: 680
	Households: 0
	Businesses: 0
	Third Party Service Providers: 0
	Served by Proposed Network Via Third Party Service Provider
	Community Anchor Institutions: 0
	Households: 0
	Businesses: 0

Other	
Proposed MM Network	 Backbone: Up to 40 (forty) 10-gigabit circuits per pair of fibers
Capacity	 Laterals: 1-gigabit and 10-gigabit connections
Proposed LM Network Speed	Highest offered speed tier: N/A
	 Estimated Average speed for highest speed tier: N/A
Total Points of Interconnection	• Total Pol's: 34
	 Pol's in Underserved/Unserved Areas: 10
	 Environmentally-controlled, non-passive Pols: 0
Jobs Created	• Direct Job-years: 66
	Indirect Job-years: 647
	• Induced Job-years: 401
Required Time for Project	
Completion (Number of	
Required Quarters to Fully	9
Build-out and Test Network	
and Make Ready for	
Commercial Service)	