



Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program

Submitted Date: 3/26/2010 5:08:38 PM	Easygrants ID: 5376
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: NORTHWEST OPEN ACCESS NETWORK
Task: Submit Application - BTOP	Applicant Name: Mr. Dave Spencer

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A. General Application Information

Applicant Information	
Name and Federal ID for Applicant	
DUNS Number	127973282
CCR # (CAGE)	5DLU1
Legal Business Name	NORTHWEST OPEN ACCESS NETWORK
Point of Contact (POC)	DAVID SPENCER 2083436477 Ext. dspencer@noanet.net
Alternate POC	DAVID SPENCER 2083436477 Ext. dspencer@noanet.net
Electronic Business POC	DAVID SPENCER 2083436477 Ext. dspencer@noanet.net
Alternate Electronic Business POC	PAT OWENBY 3608076384 Ext. powenby@noanet.net

Name and Contact Information of Person to be Contacted on Matters Involving this Application:	
Prefix	Mr.
First Name	Dave
Middle Name	
Last Name	Spencer
Suffix	
Telephone Number	208-343-6477



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Fax Number	
Email	btop@noanet.net
Title	Chief Operating Officer

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

Project Role	Name	Phone	Email
Secondary Point of Contact	Mr. Mike , Henson	3608154630	mhenson@noanet.net
Other Contact	Mr. Rob , Kopp	2088635346	rkopp@noanet.net

Environmental Point of Contact

Prefix: Mr. Name: Kopp, Rob Suffix: Telephone Number: 2085859698 Title: Chief Technology Officer
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Organization Classification

Type of Organization	Non-profit Corporation
Is the organization a small business?	No
Does the organization meet the definition of a socially and economically disadvantaged small business concern?	No



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Authorized Organizational Representative	
AOR Name	SPENCER, DAVID
Result	Applicant Authorized

Project Title and Project Description

Project Title: State of Washington Broadband Consortium

Project Description: The proposal will ensure that every Community College in Washington is connected to high capacity broadband. It will enhance public safety access for first responders and medical personnel responding the emergencies. It will enable a comprehensive community to include libraries, justice, park, Tribal and county facilities allowing new services. It will directly connect 270+ anchor institutions.

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.
2. The project will deploy Middle Mile broadband infrastructure and has incorporated a public-private partnership among government, non-profit and for-profits entities, and other key community stakeholders.
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.
6. This project will deploy Middle Mile broadband infrastructure and either includes a Last Mile infrastructure component in unserved or underserved areas or has received commitments from one or more Last Mile broadband service providers to utilize the Middle Mile components. Any Last Mile components in rural areas do not exceed 20% of the total eligible costs of the project.
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



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

Middle Mile

Last Mile Rural

BIP Applicants

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
5183	Yakama Nation Broadband
5212	Regional Broadband Education Project - SBA
5158	Regional Broadband Education Project - PCC
5601	Northern Lights: Building Broadband Communities
6321	Stimulating Broadband-Enabled Economic Growth in Underserved Washington Communities
5209	CCN PCC
1768	NoaNet BB Infrastructure Project



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1854	Pend Oreille County PUD Broadband Network
7158	Okanogan County PUD Last-Mile Project
5818	Northeast Washington Rural Broadband Access Network
7660	Inland Telephone, DeWatto
7693	Inland Telephone, Prescott

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

The State of Washington Broadband Consortium has worked with a number of other grant applicants to ensure a complete infrastructure within the CCI component of the grant. Specifically this grant is fully integrated with the NoaNet BB infrastructure grant awarded in round 1, the Pend Oreille Public Utility District grant from round 1. It also is aligned and supports the Yakama Nation BIP last mile grant by providing inter-connecting middle mile infrastructure. We have also coordinated with the Okanogan Public Utility District BIP grant for last mile and the Confederated Colville Tribes middle mile grant. The BIP grant applications for Inland Telephone to build out last mile that compliments the NoaNet round 1 application and this round 2 application are also collaborative works to create a comprehensive middle and last mile infrastructure in Washington. All of these grants work together to ensure that the underserved areas in Washington receive the ability to have high speed broadband. Each of these grants are stand alone and do not overlap but do compliment each other in the fulfillment of the ARRA program goals. In addition to the CCI grants the Consortium has worked with Educational Service District-105 PCC and SBA grant for the Yakama Valley region and public libraries of Washington. these two grants build user demand for broadband and promote early childhood education opportunities for Native American and immigrant populations in Washington state that are some of the most underserved and vulnerable populations. These grants add to the overall goals for this application. Finally we have coordinated with CCN to provide support for the SBA grant to provide programmatic content to sites in support of the Justice Network.

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?



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- No, Applicant is subject to these requirements

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
Dave Spencer	Chief Operating Officer and Treasurer	Northwest Open Access Network
Greg Marney	Chief Executive Officer	Northwest Open Access Network
Rob Kopp	Chief Technical Officer	Northwest Open Access Network
Mike Henson	Chief Security Officer	Northwest Open Access Network

B. Executive Summary, Project Purpose and Benefits

Essay Question

Executive Summary of the proposed project:

Today's Internet is a principal integrating force in the economic, educational, and social life of the United States. Information is the new commodity and providing access to that information is critical. On a national scale we must have the infrastructure necessary to handle the flow of information if America is to continue to compete globally. In the short term, programs and strategies that help create jobs, promote education, and improve criminal justice and public health services are essential. The greater long-term benefit is the production of a generation of active participants better prepared to meet the challenges of the future, whether those individuals are from a large metropolitan area or a small rural community.

In the state of Washington, challenging geographic barriers make it difficult to bring broadband to many of the state's remote communities. Prohibitive construction costs prevent private telecom companies from offering broadband services in many regions of the state. Natural



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features both east and west of the Cascade mountain range, foothills, ridges, canyons, gorges, national forests, and complex waterways have thus denied vulnerable populations access to the Internet services deemed essential today, from searching and applying for jobs online to live streaming for medical consultations.

The goal of this Broadband Technology Opportunities Program proposal is to bring new or improved Internet connectivity to these historically vulnerable populations. The project extends Washington State’s backbone network and the newly funded NTIA BTOP Round 1 network to support additional middle mile and last mile builds to unserved and under-served areas of the state. The grant will provide broadband access to more than 55 economically depressed communities, passing 538,559 households, and 103,230 businesses.

Our proposal is headed by the Northwest Open Access Network (NoaNet), a not-for-profit organization with a proven record of success. NoaNet has created a strong and synergistic alliance of public, non-profit and private organizations in support of this proposal. Our anchor institutions include the Washington State Library, Washington Courts, the State of Washington Superintendent of Public Schools, Tulalip Tribes, Washington State Parks, the Washington Military Department-Emergency Management Division Enhanced 9-1-1 (E911) Program, King County, the Washington State Board for Community and Technical Colleges, and the Washington State Department of Health.

Additional key stakeholders in the project include five community college, 42 libraries, 6 Native American tribes, the Washington Rural Broadband Cooperative (WA-RBC), 98 schools, 7 PUDs, 1 private power company, a software consulting company, 2 private telecommunications carriers, 2 small or disadvantaged businesses and 11 city and county governments. Matching funds are being provided by 23 different entities.

The proposed infrastructure will bring a minimum of 100Mbps or higher connectivity to anchor institutions, a minimum of 10Mbps to participating organizations, and the ability to scale beyond 10Gbps for the entire system. Middle mile components includes 283 anchor institutions over more than 450 mile of fiber and microwave infrastructure. Last mile deployments include two dual-band radio public safety projects, bringing high capacity mobile data to first responders and affordable access to a low income population.

The new grant will support Washington’s struggling schools, colleges, libraries, state parks, and public health and safety agencies, many of which are located outside the heavily populated Interstate 5 corridor. In areas where mining or timber operations once thrived, unemployment can be greater than 13%. Businesses are reluctant to relocate or expand in towns that provide no broadband connectivity, further reducing employment opportunities for residents whose natural resource-based jobs have been lost.



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Schools, community colleges, and libraries are often the only places in small communities with hope for adequate connectivity to the Internet due to cost of deployment in rural areas. The limited number of public workstations at schools and libraries, heavy demand, and crippling speeds slow down or block Internet access entirely in some areas. Students at one-fourth of Washington’s school districts are impeded by slow Internet connection speeds. Internet access is so precious in the mountainous parts of the state that residents sit in their cars far into the evening to access their library’s wireless network. In five rural counties surveyed in a 2009 study by the Washington UTC, 24% of the population was still using dial-up connectivity. Broadband access is sorely needed to expand STEM (science, technology, engineering, and mathematics (STEM) education to areas of the state where AP course curricula and access to professionals in these areas is difficult. As a result, NoaNet has created strategic alliances with the state, tribes, schools, and local government to work together to find solutions.

The need for broadband is also acute at community college branches in the Olympic Peninsula, the mountainous areas north of Spokane, and coastal Washington addressed in this proposal. Each of these sites is currently saddled with a maximum connectivity speed of 1.5 Mbps (T1). With broadband connectivity, the branches could serve as powerful equalizers for the fragile communities they serve.

There is an urgent need to improve communications for Washington’s public safety agencies. Enhanced 911 dialing is now available statewide, but much of the system still relies on 56K-capable voice grade circuits. Currently, remote areas often have only the most rudimentary capabilities needed to share critical information among fire, police, hospitals and first responders during joint operations.

Washington’s health care providers struggle with the limitations imposed by restricted connectivity options, given that a properly connected Public Health physician can serve as many as three counties. The proposed connectivity would permit remote diagnosis, enhance professional training with reduced travel, and make it possible to provide immediate assessment and guidance to emergency workers via videoconferencing.

Our proposal will provide critical infrastructure for the state’s police, sheriff, fire, and E911 services. The ability to transfer real-time data over wireless networks will allow EMTs to communicate with hospital physicians en route from injury sites. Firefighters travelling to trouble spots will be able to download building plans and hazardous material information from county GIS systems reducing risk to the responder while improving response times. This capability will help reduce property damage and injuries resulting in lower costs to the citizens. Broadband emerges as the only available method for work for many if a natural disaster disrupts travel by ferry or bridge in Puget Sound. Portions of the sound’s 22,000 acre Tulalip Indian are



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served by the tribe's own Tulalip Data Services, but many remote areas in the region have little or no connectivity. The annual median income for Tulalip families is \$10,000. Paying for broadband service at the current rates would amount to 24% of their disposable income an entirely prohibitive cost.

Broadband is needed by state civil/criminal law and justice systems, including tribal courts. In the Olympic Peninsula's Jefferson County, Spanish interpreters require more than five hours of travel time for a half-hour hearing. The new connectivity would make it possible to conduct hearings via video, enable access to pro bono services and self-help web sites, and promote timelier information sharing among the state's law enforcement agencies.

The proposed \$79,002,417 project will promote education, ensure safety, and improve the quality of life for tens of thousands subscribers across the state of Washington. When combined with the infrastructure from round 1 of the BTOP program this proposal creates a seamless consortia of broadband entities reaching more than 170 communities and 2000+ anchor institutions in rural and underserved areas.

The Consortia have all been engaged in their respective businesses since 2000 or before. NoaNet and the consortia operate an extensive network today which will be expanded by this proposal. This project is a natural extension of current successful businesses. We expect 732 jobs years to be created or preserved.

NoaNet is an open and non-discriminatory network and will meet or exceed FCC 05-151 requirements. NoaNet will offer interconnection to facilities where technically feasible without exceeding current or reasonably anticipated capacity limitations, on reasonable rates and terms to be negotiated with requesting parties. Grant participants will negotiate in good faith with all parties making a bona fide request for access to the public Internet.

Project purpose:

Residents of Washington who live in underserved areas will benefit from the additional connectivity provided by BTOP. The physical topography constraints of mountains and canyons raises the costs of broadband construction in orders of magnitude greater than urban builds, limiting services to rural areas of the state from private companies. Rural residents rely on anchor institutions for access to broadband for research, education, and social services as homes do not have access due to cost or availability. Further build-outs of broadband services to our underserved areas will dramatically enhance the future of communities in Washington by providing opportunities for companies to establish themselves where they previously couldn't consider as viable.



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Libraries and schools are hubs for residents where they rely on limited access to Internet and research networks. Sixty percent of primary students use library Internet access to complete their homework. Unemployed and transitional workers use library access points to find jobs, complete resumes, and apply online for benefits. Yet libraries have to limit access to accommodate the increasing demands placed on at-capacity systems. Internet is so dear that patrons park outside libraries and schools after hours for Internet access. Schools, libraries, and others included in this grant have committed staffing and resources to provide towns with enhanced education programs, distance learning access, and job training all which need broadband.

One third of all school districts in Washington have buildings where positive student outcomes are impeded by slow connection speeds. State schools are attempting to operate online learning programs, Internet services, and even VoIP services all on limited capacity. Increased coverage can make a drastic difference, one small rural school district found with 100Mb service they could provide online AP courses and other enrichment programs. The school district doubled the number of students who passed their standardized testing. The national push towards online learning will not be a reality in Washington without adequate Internet connectivity. Community colleges are educational resources for university bound, technical and trade students, as well as continuing education opportunities for the communities. It is imperative that these centers have broadband access to support their staff and students as well as provide a central distribution point for broadband to their communities.

Washington is home to many native nations, which are typically remote and in great need for broadband services. Residents in some areas travel 80 miles to reach the nearest broadband site. The annual median income for a Tulalip Tribe family is \$10,000. Limited resources prohibit the family from affording the cost which then continues the cycle of poor education and job preparation and poverty. Tribe councils involved with this grant are committed to providing educational programs to increase graduation rates, adult learning programs to increase literacy and cultural archives to document, preserve, and research tribe history. Tribal law enforcement programs also need broadband access to participate in multi-jurisdictional public safety programs. Improved broadband is needed by state civil and criminal law and justice systems, including tribal courts. To deploy a Spanish interpreter to Jefferson Co. from Olympia it would require more than 5 hours of travel for a .5hr hearing. New connectivity makes it possible to conduct bail, traffic, and criminal hearings via video, enable access to pro bono services, deliver legal and law enforcement training, and promote information sharing among the state's law enforcement agencies.



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There is an urgent need to improve communications for Washington’s public safety agencies. Enhanced 911 dialing is available statewide, however most of the system relies on 56K voice grade circuits. Remote areas have only the most basic tools to share critical information among hospitals and first responders during joint operations. OPSCAN, a supporting partner, could extend it’s range to assist public safety programs in more remote locales on the peninsula. Washington’s health care providers struggle with limitations imposed by limited connectivity options given that a properly connected public health physician can serve as many as three counties. The proposed connectivity would permit remote diagnosis, guidance to emergency workers via video-conferencing serving more of our most vulnerable populations. Mt Carmel hospital in Colville is an example of where broadband can help a community health care system with remote consultation, tele-radiology, and other data intensive services. With this grant, small rural hospitals can pool their needs for specialized data services by sharing radiologists and specialists, saving costs in care while increasing patient care quality. Washington lifestyles lend themselves to outdoor activities, which includes parks and recreation. The local economic engine for many remote locales is a state park. Tourism is an economic cornerstone for many rural towns, and visitors expect to be “connected” during their stays and will often cut short their visit or don’t visit at all if they can’t find Internet access. The current limited bandwidth hinders coordination between parks and schools, medical assistance, and public safety agencies completing the circle of need in our rural towns. Middle mile development from Round 1 of the BTOP grant in addition to this grant provides new opportunities for communities to find their place in the new digital age. The proposed connectivity throughout the state will directly benefit hundreds of struggling Washington communities as well as stimulate long-term economic growth and improve the quality of life for all residents.

Recovery Act and Other Governmental Collaboration:

The State of WA Broadband Consortium is working with Clallam County Public Utility District #1 in support of SMART Grid activities including support of Department of Energy Funding Opportunity No. DE-FOA-0000058. The core broadband extensions included in this broadband grant will enable use of the DOE SMART Grid technology by completing middle mile infrastructure required to fully realize the benefit of the SMART Grid through the Clallam PUD service area. We are also working with Franklin Public Utility District, Energy Northwest, Yakama Power, a wholly owned utility of the Yakama Nation, and Port Angeles City Light to support SMART Grid initiatives under the DOE program.



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The Consortium is working with the OPSCAN, a multijurisdictional interoperability project sponsored under the Department of Homeland Security grants program for first responder interoperability. This program operates in 10 western Washington counties currently. The broadband middle mile proposed will strengthen this \$15 million dollar federal grant and expand its reach to more rural areas while increasing the reach of broadband to underserved communities.

The Consortium is working closely with Washington State’s K-20 Education Network created by legislation in 1996 to provide network and Internet services to 296 school districts, 34 community and technical colleges, 6 baccalaureates and the Washington State Library. The goal is to ensure that all school district buildings and libraries have access to broadband. This collaboration ensures that the current significant K-20 receipt of Federal Communications Commission, Universal Service Fund e-rate program funds are complimented and further maximize the value of the e-rate federal support to schools and libraries through the combination of the grant and the e-rate program. In addition, the WSL has been working with the Gates Foundation to secure \$1.5 million in funding to support the goals of broadband to every library in WA.

The Consortium is working with the Association of Washington Public Hospital Districts (AWPHD) to implement the RHC Pilot Program WC Docket No. 02-60 grant through the extension of broadband to rural hospitals furthering the goals of the FCC RHC Pilot Program.

This proposal will build upon the success of the above programs and enable each program to expand beyond its current levels of success. In combining the capabilities of all these programs and this grant proposal we increase the efficiencies of each individual program. These programs will add to the overall sustainability of this proposal and this proposal will add new capabilities to the programs.

Fit with BTOP CCI Priorities:

NoaNet’s BTOP proposal meets all the criteria outlined in the CCI Priority Checklist, as explained below.

1. The project offers new or substantially upgraded service to community anchor institutions. Currently, many of our anchor institutions are limited to a maximum connectivity of 1.5Mbps (T1), severely limiting access to broadband. The proposed infrastructure will bring 100Mbps DWDM connectivity to anchor institutions, a minimum of 10Mbps to participating



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organizations, and the ability to scale beyond 10Gbps for the entire system. We will initially focus on sites with no current broadband access.

2. Our proposal incorporates a public-private partnership among state, local, and municipal government; non-profit organizations such as the Washington Rural Broadband Cooperative, tribes, and Educational Development Centers; K12 schools, and community colleges. Other key stakeholders include public utilities, water resource and power alliances, and private carriers.

3. The new connectivity will bolster growth in economically distressed areas throughout the state. Layoffs in the timber and light manufacturing industries have turned thriving, self-sufficient towns in Washington into struggling communities, where residents must leave town to work or shop. Depletion of the fishing industry, the closure of mines and generation plant shutdowns have laid off workers in southwest Washington. In south central, southeast, and northeast Washington, challenging terrain and depleted natural resources have increased the digital divide in access to government support, economic relief from local agencies, and online jobs training. Over 50 communities in the proposal are in economically distressed areas.

4. Community College anchor institutions include Grays Harbor College's Columbia Education Center Branch Campus in Ilwaco, Peninsula College's east Jefferson Education Center in Port Hadlock and main extension in Port Townsend, and Spokane Community College District's Inchelium Center in Inchelium and Republic Center in Republic, Washington. Ensure high capacity access to every community college in the state.

5. Public safety grant participants include enhanced 911 dialing (E911); police, fire departments, and Sherriff's departments in many municipalities; and the Washington State Police.

6. Include a Last Mile infrastructure component in unserved or underserved areas or, alternatively, commitment letters from one or more Last Mile broadband service providers. We have 2 last mile area service areas and working with 2 other complementary grants. We also have letters from at least 5 last mile providers.

7. Propose to contribute a non-federal cost match that equals or exceeds 30 percent of the total eligible costs of the project.

We will have 30% non-federal matching.

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



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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: Other Name: Walsh, Jan Phone: 3607045200 Email: jan.walsh@sos.wa.gov Address 1: 6880 Capitol Blvd. Address 2: Address 3: City: Tumwater State: Washington Zip Code: 98504 Organization: Washington 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: Golston, Allan Phone: 2067093100 Email: agolston@gatesfoundation.org Address 1: P.O. Box 23350 Address 2: Address 3: City: Seattle



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State: Washington
 Zip Code: 98102
 Organization: Bill and Melinda Gates Foundation
 Organization Type: Non-profit Foundation
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Culp, Gwen
 Phone: 3607044518
 Email: gculp@trlib.org
 Address 1: 415 Tumwater Blvd. SW
 Address 2:
 Address 3:
 City: Tumwater
 State: Washington
 Zip Code: 98501
 Organization: Timberland Regional Library
 Organization Type: Other
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Harris, Bud
 Phone: 3603374818
 Email: BJharris@co.kitsap.wa.us
 Address 1: 614 Division Street
 Address 2:
 Address 3:
 City: Port Orchard
 State: Washington
 Zip Code: 98366
 Organization: Kitsap County
 Organization Type: County Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Whitford, Susan
 Phone: 3604059100
 Email: swhitford@krl.org
 Address 1: 1301 Sylvan Way



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Address 2:
Address 3:
City: Bremerton
State: Washington
Zip Code: 98310
Organization: Kitsap Regional Library
Organization Type: Other
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Keith, Greg
Phone: 8008698281
Email: gkeith@tulaliptribes-nsn.gov
Address 1: 6406 Marine Dr
Address 2:
Address 3:
City: Tulalip
State: Washington
Zip Code: 98271
Organization: Tulalip Tribes of Washington
Organization Type: Indian Tribe
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Bohl, Martin
Phone: 5094451147
Email: mbohl@kalispelltribe.com
Address 1: P.O. Box 39
Address 2:
Address 3:
City: Usk
State: Washington
Zip Code: 99180
Organization: Kalispell Tribe of Indians
Organization Type: Indian Tribe
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Other
Name: Wiseman, Ray



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Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: NORTHWEST OPEN ACCESS NETWORK	
Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Phone: 5098657697
 Email: ray@yakama.com
 Address 1: 111 Fort Road
 Address 2: P.O. Box 1279
 Address 3:
 City: Toppenish
 State: Washington
 Zip Code: 98948
 Organization: Yakama Nation
 Organization Type: Indian Tribe
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Other
 Name: Wise, Bill
 Phone: 3603795610
 Email: whwise@yahoo.com
 Address 1: 201 W. Patison
 Address 2:
 Address 3:
 City: Port Hadlock
 State: Washington
 Zip Code: 98339
 Organization: Team Jefferson Economic Development Council
 Organization Type: Non-profit Corporation
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Other
 Name: McClure, Mary
 Phone: 3603779499
 Email: McClure@KitsapRegionalCouncil.org
 Address 1: 4312 Kitsap Way
 Address 2: Suite 103
 Address 3:
 City: Bremerton
 State: Washington
 Zip Code: 98312
 Organization: Kitsap Economic Development Alliance
 Organization Type: Non-profit Corporation
 Small business: No
 Socially and economically disadvantaged small business concern: No



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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

<p>Project Role: Other Name: Charles, Rodney Phone: 3604528471 Email: rod.charles@elwha.nsn.us Address 1: 2851 Lower Elwha Road Address 2: Address 3: City: Port Angeles State: Washington Zip Code: 98363 Organization: Lower Elwah Kallam Tribe of Indians Organization Type: Indian Tribe Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Vachon, Mike Phone: 5092483950 Email: mike.vachon@esd105.org Address 1: 2902 Castlevale Rd Address 2: Ste. A Address 3: City: Yakima State: Washington Zip Code: 98902 Organization: EPIC Head Start Organization Type: Non-profit Corporation Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Wiseman, Ray Phone: 8773822759 Email: ray@yakama.com Address 1: 111 Fort Road Address 2: Address 3: City: Toppenish State: Washington Zip Code: 98948 Organization: Yakama Power</p>



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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

<p>Organization Type: For-profit Entity Small business: Yes Socially and economically disadvantaged small business concern: Yes</p>
<p>Project Role: Third party in-kind contributor Name: Keith, Greg Phone: 3607165100 Email: gkeith@tulaliptribes-nsn.gov Address 1: 8732 27th Avenue NE Address 2: Address 3: City: Tulalip State: Washington Zip Code: 98271 Organization: Tulalip Data Services Organization Type: For-profit Entity Small business: Yes Socially and economically disadvantaged small business concern: Yes</p>
<p>Project Role: Other Name: Ludlow, Nelson Phone: 8889486624 Email: nelson.ludlow@icmobil.com Address 1: 191 Otto St. Address 2: Address 3: City: port townsend State: Washington Zip Code: 98368 Organization: Intellicheck Mobilisa Organization Type: For-profit Entity Small business: Yes Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Tucker, Dave Phone: 3607313830 Email: dave@dtmicro.com Address 1: 7501 Clover Blossom Ln NE Address 2: Address 3: City: Bremerton</p>



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<p>State: Washington Zip Code: 98311 Organization: DTMicro Organization Type: For-profit Entity Small business: Yes Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Third party in-kind contributor Name: Warshawer, Bob Phone: 3607833116 Email: BobW@BlackRockCable.com Address 1: 1512 Fairview Street Address 2: Address 3: City: Bellingham State: Washington Zip Code: 98229 Organization: Black Rock Cable Organization Type: For-profit Entity Small business: Yes Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Third party in-kind contributor Name: Adams, Brian Phone: 5094274865 Email: brian@saw.net Address 1: POB 857 Address 2: Address 3: City: Stevenson State: Washington Zip Code: 98648 Organization: Sawnet Organization Type: For-profit Entity Small business: Yes Socially and economically disadvantaged small business concern: Yes</p>
<p>Project Role: Other Name: Jones, Leslie Phone: 5096844571 Email: ljones@teddonline.com Address 1: 347 West Second</p>



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Address 2: Suite A
 Address 3:
 City: Colville
 State: Washington
 Zip Code: 99141
 Organization: Tri County Economic Development Council
 Organization Type: Non-profit Corporation
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Semler, Greg
 Phone: 3609518086
 Email: gsemler@cisco.com
 Address 1: 4160 6th ave SE
 Address 2: Suite 203
 Address 3:
 City: Lacey
 State: Washington
 Zip Code: 98503
 Organization: Cisco Systems Inc
 Organization Type: For-profit Entity
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Rivera, Roland
 Phone: 3607532454
 Email: RolandR@dis.wa.gov
 Address 1: 512 12th Ave SE
 Address 2:
 Address 3:
 City: olympia
 State: Washington
 Zip Code: 98504
 Organization: State of Washington Department of Information Services
 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: Vaschon, Mike



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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

<p>Phone: 5095752285 Email: mike.vaschon@esd105.org Address 1: 33 South Second Ave Address 2: Address 3: City: Yakima State: Washington Zip Code: 98902 Organization: Educational Schoold District 105 Organization Type: State or State Agency Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Duncan, Pete Phone: 3605041056 Email: duncan.pete@gmail.com Address 1: 865 Carlsborg Rd Address 2: Unit B Address 3: City: Sequim State: Washington Zip Code: 98382 Organization: TEFnET Mesh Networks Organization Type: For-profit Entity Small business: Yes Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Scroggins, Michael Phone: 3607044377 Email: mscroggins@sbctc.edu Address 1: PO Box 42495 Address 2: Address 3: City: olympia State: Washington Zip Code: 98504 Organization: State of Washington Board of Community & Technical Colleges Organization Type: State or State Agency Small business: No Socially and economically disadvantaged small business concern: No</p>



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<p>Project Role: Other Name: Baril, Katherine Phone: 3603795610 Email: kbaril@wsu.edu Address 1: 201 W. Patison Address 2: Address 3: City: Port Hadlock State: Washington Zip Code: 98339 Organization: Washington State University Extension Office Organization Type: State or State Agency Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Tamayo, Peter Phone: 3607256000 Email: Peter.Tamayo@k12.wa.us Address 1: PO Box 47200 Address 2: Address 3: City: Olympia State: Washington Zip Code: 98504 Organization: Office of Superintendent of Public Instruction Organization Type: State or State Agency Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Sub-recipient Name: Myers, Kent Phone: 3604570411 Email: citymanager@cityofpa.us Address 1: P.O. Box 1150 Address 2: Address 3: City: Port Angeles State: Washington Zip Code: 98362 Organization: City of Port Angeles</p>



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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

<p>Organization Type: City or Township Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Benedict, Bill Phone: 3604172262 Email: sheriff@co.clallam.wa.us Address 1: 223 E. 4th Street Address 2: Address 3: City: Port Angeles State: Washington Zip Code: 98362 Organization: Clallam County Sheriff Organization Type: County Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Gallagher, Terry Phone: 3604570411 Email: police@cityofpa.us Address 1: 321 East 5th Street Address 2: Address 3: City: port angeles State: Washington Zip Code: 98362 Organization: City of Port Angeles Police Department Organization Type: City or Township Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: McKeen, Daniel Phone: 3604174655 Email: pafire@cityofpa.us Address 1: 102 E 5th St Address 2: Address 3: City: Port Angeles</p>



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State: Washington
 Zip Code: 98362
 Organization: City of Port Angeles Fire Department
 Organization Type: City or Township Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Other
 Name: Morley, Philip
 Phone: 3603859100
 Email: pmorley@co.jefferson.wa.us
 Address 1: PO Box 1220
 Address 2:
 Address 3:
 City: Port Townsend
 State: Washington
 Zip Code: 98368
 Organization: Jefferson County
 Organization Type: County Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Other
 Name: Timmons, David
 Phone: 3603795047
 Email: dtimmons@cityofpt.us
 Address 1: 250 Madison St
 Address 2:
 Address 3:
 City: Port Townsend
 State: Washington
 Zip Code: 98368
 Organization: City of Port Townsend
 Organization Type: City or Township Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Graham, Bill
 Phone: 3603855800
 Email: bgraham@jeffpud.org
 Address 1: POBox 929



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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Address 2:
Address 3:
City: Port Hadlock
State: Washington
Zip Code: 98339
Organization: Public Utility district #1 of Jefferson County
Organization Type: County Government
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Other
Name: Crockett, Larry
Phone: 3603850656
Email: larry@portofpt.com
Address 1: P.O. Box 1180
Address 2:
Address 3:
City: Port Townsend
State: Washington
Zip Code: 98368
Organization: Port of Port Townsend
Organization Type: City or Township Government
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Other
Name: Pomeroy, Gordon
Phone: 3603852626
Email: gpomeroy@ejfr.org
Address 1: 40 Seton Rd
Address 2: Suite A
Address 3:
City: Port Townsend
State: Washington
Zip Code: 98368
Organization: East Jefferson Fire and Rescue
Organization Type: County Government
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Other
Name: Wilkerson, Ed



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Phone: 3604372236
Email: ed@plfr.org
Address 1: 7650 Oak Bay Road
Address 2:
Address 3:
City: Port Ludlow
State: Washington
Zip Code: 98365
Organization: Port Ludlow Fire and Rescue
Organization Type: City or Township Government
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Other
Name: Herbst, Bob
Phone: 3607964450
Email: bobh@brinnonfire.org
Address 1: Post Office Box 42
Address 2:
Address 3:
City: Brinnon
State: Washington
Zip Code: 98320
Organization: Brinnon Fire Department
Organization Type: City or Township Government
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Other
Name: Hernandez, Tony
Phone: 3603853831
Email: ahernandez@co.jefferson.wa.us
Address 1: 79 Elkins Road
Address 2:
Address 3:
City: Port hadlock
State: Washington
Zip Code: 98339
Organization: Jefferson County Sheriff
Organization Type: City or Township Government
Small business: No
Socially and economically disadvantaged small business concern: No



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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

<p>Project Role: Third party in-kind contributor Name: Hernandez, Tony Phone: 3603853831 Email: ahernandez@co.jefferson.wa.us Address 1: 81 Elkins Rd Address 2: Address 3: City: POrt hadlock State: Washington Zip Code: 98339 Organization: JeffCOM Organization Type: County Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Opstad, Tom Phone: 3603794501 Email: topstad@ptsd50.org Address 1: 450 Fir Street Address 2: Address 3: City: port townsend State: Washington Zip Code: 98368 Organization: Port Townsend School District Organization Type: City or Township Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Thompson, Nancy Phone: 3607964646 Email: nthompson@bsd46.org Address 1: 46 Schoolhouse Road Address 2: Address 3: City: Brinnon State: Washington Zip Code: 98320 Organization: Brinnon School District #46</p>



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<p>Organization Type: City or Township Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Ward, Lorna Phone: 3607653363 Email: ward@worldfront.com Address 1: PO Box 40 Address 2: Address 3: City: Quilcene State: Washington Zip Code: 98376 Organization: Quilcene School District Organization Type: City or Township Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Third party in-kind contributor Name: Harris, Bud Phone: 3603374818 Email: bjharris@co.kitsap.wa.us Address 1: 614 Division Street Address 2: Address 3: City: Port Orchard State: Washington Zip Code: 98366 Organization: Kitsap County Organization Type: County Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Sub-recipient Name: Koepke, Mike Phone: 3607799163 Email: mkoepke@kpud.org Address 1: 1431 NW Finn Hill Rd Address 2: Address 3: City: Poulsbo</p>



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State: Washington
 Zip Code: 98370
 Organization: Kitsap County PUD #1
 Organization Type: County Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: harris, Bud
 Phone: 3603075800
 Email: bjharris@co.kitsap.wa.us
 Address 1: 911 Carver Street
 Address 2:
 Address 3:
 City: bremerton
 State: Washington
 Zip Code: 98312
 Organization: Kitsap County Central Communications 911
 Organization Type: County Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Other
 Name: Harris, Janet
 Phone: 3606621610
 Email: Janeth@cksd.wednet.edu
 Address 1: PO Box 8
 Address 2:
 Address 3:
 City: Silverdale
 State: Washington
 Zip Code: 98383
 Organization: Central Kitsap School District
 Organization Type: City or Township Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Other
 Name: Helton, George
 Phone: 5095741000
 Email: george.helton@yakima.co.us
 Address 1: 128 North 2nd Street



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Address 2:
Address 3:
City: yakima
State: Washington
Zip Code: 98901
Organization: Yakima County
Organization Type: County Government
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Gadeberg, Ron
Phone: 5094228404
Email: rong@okpud.org
Address 1: PO Box 912
Address 2:
Address 3:
City: Okanogan
State: Washington
Zip Code: 98840
Organization: Okanogan County PUD
Organization Type: City or Township Government
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Other
Name: Curtis, Mark
Phone: 5096847505
Email: mcurtis@co.stevens.wa.us
Address 1: 215 S. Oak Street
Address 2:
Address 3:
City: Colville
State: Washington
Zip Code: 99114
Organization: Stevens County
Organization Type: County Government
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Price, Dick



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Phone: 5092332534
 Email: dprice@stevenspud.org
 Address 1: PO Box 592
 Address 2:
 Address 3:
 City: Loon Lake
 State: Washington
 Zip Code: 99148
 Organization: Stevens County PUD #1
 Organization Type: City or Township Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
 Name: Onley, Joe
 Phone: 5094473137
 Email: jonley@popud.org
 Address 1: PO Box 190
 Address 2:
 Address 3:
 City: newport
 State: Washington
 Zip Code: 99156
 Organization: Pend Oreille County PUD
 Organization Type: County Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Other
 Name: Johnson, Craig
 Phone: 3605658400
 Email: craig@cpifiber.com
 Address 1: 116 1/2 west Eighth St.
 Address 2:
 Address 3:
 City: Port Angeles
 State: Washington
 Zip Code: 98362
 Organization: Capacity Provisioning Inc
 Organization Type: For-profit Entity
 Small business: Yes
 Socially and economically disadvantaged small business concern: No



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<p>Project Role: Other Name: Campbell, Robert Phone: 5096855100 Email: robert.campbell@providence.org Address 1: 982 E Columbia Address 2: Address 3: City: colville State: Washington Zip Code: 99114 Organization: Mount Carmel Hospital Organization Type: Non-profit Corporation Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Third party in-kind contributor Name: Owen, Gareth Phone: 4259437120 Email: gowen@juniper.net Address 1: 601-108th Ave. NE 19th floor Address 2: Address 3: City: Bellevue State: Washington Zip Code: 98004 Organization: Juniper Networks Organization Type: For-profit Entity Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Oenning, Robert Phone: 2535127000 Email: r.oenning@emd.wa.gov Address 1: Building 20, MS TA-20 Address 2: Address 3: City: camp Murray State: Washington Zip Code: 98430 Organization: Washington Military Department Emergency Management Division</p>



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<p>Organization Type: State or State Agency Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Bond, Roland Phone: 5097755242 Email: comissioners@co.ferry.wa.us Address 1: 350 East Delaware Address 2: Address 3: City: Republic State: Washington Zip Code: 99166 Organization: Ferry County Organization Type: County Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Friedrichs, John Phone: 5097753325 Email: jfriedrichs@fcpud.com Address 1: P.O. Box 1039 Address 2: Address 3: City: republic State: Washington Zip Code: 99166 Organization: Ferry County PUD #1 Organization Type: County Government Small business: No Socially and economically disadvantaged small business concern: No</p>
<p>Project Role: Other Name: Serebrin, Roy Phone: 3603856544 Email: rserebrin@jclibrary.info Address 1: 620 Cedar Avenue Address 2: Address 3: City: Port Hadlock</p>



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State: Washington
 Zip Code: 98339
 Organization: Jefferson County Rural Library District
 Organization Type: County Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Fisher, Karen
 Phone: 3603976121
 Email: Dave.Scheuch@clark.wa.gov
 Address 1: P.O. Box 5000
 Address 2:
 Address 3:
 City: vancouver
 State: Washington
 Zip Code: 98666
 Organization: Clark County
 Organization Type: County Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
 Name: Nall, Rich
 Phone: 5095822175
 Email: broadbandinfo@bentonpud.org
 Address 1: P.O. Box 6270
 Address 2:
 Address 3:
 City: kennewick
 State: Washington
 Zip Code: 99336
 Organization: Benton County PUD
 Organization Type: County Government
 Small business: No
 Socially and economically disadvantaged small business concern: No

Project Role: Third party in-kind contributor
 Name: Blackeagle, Morrie
 Phone: 3605983311
 Email: mblackeagle@suquamish.nsn.us
 Address 1: PO Box 498



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Address 2:
Address 3:
City: Suquamish
State: Washington
Zip Code: 98392
Organization: The Suquamish Tribe
Organization Type: Indian Tribe
Small business: No
Socially and economically disadvantaged small business concern: No

Project Role: Sub-recipient
Name: Nall, Rich
Phone: 5095822175
Email: rnall@bentonpud.org
Address 1: 2721 W. 10th Avenue
Address 2:
Address 3:
City: Kennewick
State: Washington
Zip Code: 99336
Organization: Benton County Public Utility District #1
Organization Type: County Government
Small business: No
Socially and economically disadvantaged small business concern: No

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

The State of WA Broadband Consortium is composed of public, private, non-profit and Native American entities. The Consortium includes early, primary, secondary and adult education programs, economic development entities, and libraries. The goal of the Consortium is to create a comprehensive community of communities. We have focused on building communities from the ground up. Starting at the county level we sought to engage local first responders, county resources and private providers. Building on these resources we then sought to expand the community to primary and secondary educational entities in the county. The community of communities continues with post-secondary and adult education entities adding hospitals and the medical community. With the guidance of the Department of Information Services, we then sought to connect these local communities of interest with state governmental entities and ultimately with other county resources. This approach provided for an overall comprehensive



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network of communities which builds a robust broadband infrastructure locally to enable the deployment of broadband to every citizen. This approach has led to two pilot deployments in services areas to build mobile 4G infrastructure for first responders and have a dual purpose of providing broadband access to the public. These critical public safety projects give the middle project an increased effectiveness allowing for an easy model for advanced service deployment in service areas across the state.

Contributors:

NoaNet
SawNet
Juniper
Cisco
CenCom
ESD 105
JeffCom
Clark County
Benton County Public Utility District#1
Kitsap County
Stevens County
BlackRock Cable
Suquamish Tribe
City of Port Orchard
City of Port Angeles
Tulalip Data Services
The Gates Foundation
Kitsap Regional Library
Timberland Regional Library
Kitsap Public Utility District #1
Okanogan Public Utility District #1
Jefferson Public Utility District #1
Pend Oreille County Public Utility District
Department of Information Services
Stevens County Public Utility District



Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program

Submitted Date: 3/26/2010 5:08:38 PM	Easygrants ID: 5376
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: NORTHWEST OPEN ACCESS NETWORK
Task: Submit Application - BTOP	Applicant Name: Mr. Dave Spencer

List of Participants

Native American Tribal Entities
Lower Elwah S’Kallam Tribe of Indians
Port Gamble S’Kallam Tribe of Indians
Tulalip Tribes of Washington
Kalispell Tribe of Indians
Yakama Nation

Non-profit Entities
EPIC HeadStart
Mt. Carmel Hospital
Team Jefferson EDC
Kitsap Economic Development
Tri-county Economic Development
The Bill and Melinda Gates Foundation

Private Companies
Cisco Systems Inc.
Yakama Power
Tulalip Data Services
TefnNet
Intellichek Mobilisa
DTMicro
BlackRock Cable Inc.
SawNet
Ecliptix Networks
Capacity Provisioning Inc.
Juniper Networks Inc.

Public Agencies
CenCom



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JeffCom
OPSCAN
Clark County
Ferry County
Kitsap County
Yakima County
Stevens County
Jefferson County
Port Ludow Fire
Port Angeles Fire
East Jefferson Fire
Peninsula College
Port Angeles Police
City of Port Angeles
Port Townsend Police
City of Port Townsend
Port of Port Townsend
Brinnon School District
Clallam County Sheriff
Pend Oreille Public Utility District #1
Ferry County Public Utility District #1
Washington State University Extension Office
Washington State Dept. of Parks and Recreation
Office of the Superintendent of Public Instruction
State of Washington Dept. of Information Services
State of Washington Military Dept. of Emergency Management
State of Washington Board of Community & Technical Colleges
Kitsap Regional Library
Quilcene School District
Jefferson County Sheriff
Brinnon Fire and Rescue
Washington State Libraries
Port Hadlock Fire and Rescue
Central Kitsap School District
Port Townsend School District



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Jefferson rural Library District
Kitsap Public Utility District #1
Stevens Public Utility District #1
Educational Service District 105
Jefferson Public Utility District #1
Okanogan Public Utility District #1
Yakima Valley Community College
Administrative Office of the Courts

The previous list shows the entities that have participated in the proposal. The 25 entities providing matching funds are from public, private and non-profit sectors. Each of these entities participated in the planning collection of data and execution of the grant proposal. In addition, NoaNet, the lead applicant is joined by SawNet, an SDB under SBA, Pend Oreille County PUD, Stevens County PUD, Okanogan County PUD, Kitsap County PUD #1, Jefferson County PUD #1, Benton County PUD #1, City of Port Angeles, Blackrock Cable and the Tulalip Data Services/WA-RBC as sub-recipients in the grant. Each of these entities is providing in-kind contributions as well as commitments to build out infrastructure and expand existing infrastructure to reach more underserved areas of WA. The remaining 15 entities are third party in-kind contributors to the project in their respective communities. The list of participants has each contributed time in planning, and coordinating the project proposal and have expressed commitment to the successful and sustainable completion of the proposal if it is awarded.

This comprehensive community approach to planning broadband deployment ensure the highest value return on the project as it has been built to meet the wide range of needs from local EMS and law enforcement to county and state government requirements all while deploying a robust infrastructure that 7 different last mile service providers have demonstrated interest in providing services. The network will have a seamless operational model based on the existing interconnections and common operational principals that bind each of the operating entities.

The consortium is committed to equal access to every citizen and no special benefits are being granted in consideration for any participant.

D. Congressional Districts

Applicant Headquarters



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- Washington

Project Service States

Washington

Project Service Areas

Washington - 6

Washington - 1

Washington - 2

Washington - 4

Washington - 5

Washington - 7

Washington - 3

Washington - 9

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

- Yes

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

Lower Elwha Tribal Council

Kalispel Business Committee

Port Gamble S'Klallam Tribe



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Tulalip Board of Directors

Yakama Nation

Suquamish Tribal Council

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

- Yes

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: amp
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: 12
Total Population in Proposed Service Area: 443
Total Number of Households in Service Area: 220
Total Number of Businesses in Service Area: 8
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area:
Unemployment Rate in the Service Area: 13
Median Income in the Service Area: 39,445
Estimated Percentage of Households with Access to Broadband: 58



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Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: ash
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: 2
Total Population in Proposed Service Area: 267
Total Number of Households in Service Area: 193
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 27,917
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: biv
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: 28
Total Population in Proposed Service Area: 23,180
Total Number of Households in Service Area: 9,361
Total Number of Businesses in Service Area: 2,330
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 34
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 71,000



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Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: bac
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: 968
Total Number of Households in Service Area: 221
Total Number of Businesses in Service Area:
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 12
Median Income in the Service Area: 29,444
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: bny
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: 2,624
Total Number of Households in Service Area: 1,043
Total Number of Businesses in Service Area: 229



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Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 33,636
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Last Mile
Service Area Name: brn
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: 10
Total Population in Proposed Service Area: 1,803
Total Number of Households in Service Area: 912
Total Number of Businesses in Service Area: 10
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 27,885
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: bue
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: 3
Total Population in Proposed Service Area: 7,124
Total Number of Households in Service Area: 2,222
Total Number of Businesses in Service Area: 175
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 11
Median Income in the Service Area: 42,290
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: buk
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: 15
Total Population in Proposed Service Area: 3,303
Total Number of Households in Service Area: 1,089
Total Number of Businesses in Service Area: 100
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 50,522
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: cas
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: 13
Total Population in Proposed Service Area: 12,534
Total Number of Households in Service Area: 4,480
Total Number of Businesses in Service Area: 250
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 11
Unemployment Rate in the Service Area: 13
Median Income in the Service Area: 60,187
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: cee
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: 120
Total Number of Households in Service Area: 47
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area:
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 31,250
Estimated Percentage of Households with Access to Broadband: 48
Estimated Percentage of Households Subscribing to Broadband: 34

Service Area Type: Middle Mile
Service Area Name: cwh



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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: 3
Total Population in Proposed Service Area: 2,186
Total Number of Households in Service Area: 1,004
Total Number of Businesses in Service Area: 60
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 25,238
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: cam
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: 1,348
Total Number of Households in Service Area: 464
Total Number of Businesses in Service Area: 41
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 5
Unemployment Rate in the Service Area: 9
Median Income in the Service Area: 46,530
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44



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Service Area Type: Last Mile
Service Area Name: cmy
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: 50
Total Population in Proposed Service Area: 3,717
Total Number of Households in Service Area: 1,454
Total Number of Businesses in Service Area: 100
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 6
Unemployment Rate in the Service Area: 11
Median Income in the Service Area: 38,849
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: mdl
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: 3
Total Population in Proposed Service Area: 3,267
Total Number of Households in Service Area: 1,215
Total Number of Businesses in Service Area: 15
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 51,290



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Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: cve
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: 4,988
Total Number of Households in Service Area: 2,219
Total Number of Businesses in Service Area: 639
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 8
Unemployment Rate in the Service Area: 12
Median Income in the Service Area: 27,988
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: cwe
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: 12



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Total Population in Proposed Service Area: 1,564
Total Number of Households in Service Area: 558
Total Number of Businesses in Service Area: 20
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 50,099
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: crs
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: 341
Total Number of Households in Service Area: 138
Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 14
Median Income in the Service Area: 41,635
Estimated Percentage of Households with Access to Broadband: 44
Estimated Percentage of Households Subscribing to Broadband: 30

Service Area Type: Middle Mile
Service Area Name: csk
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



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downstream in the proposed funded service area;

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 212
Total Number of Households in Service Area: 106
Total Number of Businesses in Service Area: 3
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area:
Unemployment Rate in the Service Area: 18
Median Income in the Service Area: 14,583
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: dmg
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: 210
Total Number of Households in Service Area: 73
Total Number of Businesses in Service Area: 8
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 7
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 52,292
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: ebe
Rural Classification of the Last Mile Service Area:Non-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: 1
Total Population in Proposed Service Area: 21
Total Number of Households in Service Area: 10
Total Number of Businesses in Service Area: 1
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area:
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 13,750
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: esg
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: 15,414
Total Number of Households in Service Area: 6,732
Total Number of Businesses in Service Area: 1,136
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 12
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 20,034
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59



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Service Area Type: Middle Mile
Service Area Name: goe
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: 528
Total Number of Households in Service Area: 162
Total Number of Businesses in Service Area: 26
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 18
Median Income in the Service Area: 21,181
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: gee
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: 3,760
Total Number of Households in Service Area: 1,690
Total Number of Businesses in Service Area: 343
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 6



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Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 26,030
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: hrh
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: 542
Total Number of Households in Service Area: 179
Total Number of Businesses in Service Area: 6
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 36,875
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: hst
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: 1,827



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Total Number of Households in Service Area: 889
Total Number of Businesses in Service Area: 30
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 11
Median Income in the Service Area: 41,856
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: ioe
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: 1,187
Total Number of Households in Service Area: 425
Total Number of Businesses in Service Area: 32
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 24,083
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

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



Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program

Submitted Date: 3/26/2010 5:08:38 PM	Easygrants ID: 5376
Funding Opportunity: Broadband Technology Opportunities Program	Applicant Organization: NORTHWEST OPEN ACCESS NETWORK
Task: Submit Application - BTOP	Applicant Name: Mr. Dave Spencer

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: 1,527
Total Number of Households in Service Area: 686
Total Number of Businesses in Service Area: 46
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 27,031
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: lss
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: 6,361
Total Number of Households in Service Area: 2,234
Total Number of Businesses in Service Area: 578
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 8
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 65,231
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile



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

Submitted Date: 3/26/2010 5:08:38 PM		Easygrants ID: 5376	
Funding Opportunity: Broadband Technology Opportunities Program		Applicant Organization: NORTHWEST OPEN ACCESS NETWORK	
Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Service Area Name: lid
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: 582
Total Number of Households in Service Area: 307
Total Number of Businesses in Service Area: 25
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 40,147
Estimated Percentage of Households with Access to Broadband: 59
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: lye
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: 530
Total Number of Households in Service Area: 260
Total Number of Businesses in Service Area: 20
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 12
Median Income in the Service Area: 33,438



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

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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Estimated Percentage of Households with Access to Broadband: 59
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: mtn
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: 1,891
Total Number of Households in Service Area: 463
Total Number of Businesses in Service Area: 25
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 12
Median Income in the Service Area: 26,650
Estimated Percentage of Households with Access to Broadband: 59
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: mhr
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: 3
Total Population in Proposed Service Area: 4,958
Total Number of Households in Service Area: 1,913
Total Number of Businesses in Service Area: 280



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

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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 8
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 52,219
Estimated Percentage of Households with Access to Broadband: 59
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: mfs
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: 277
Total Number of Households in Service Area: 128
Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 9
Median Income in the Service Area: 41,250
Estimated Percentage of Households with Access to Broadband: 59
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: mes
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



**Broadband Infrastructure Application
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downstream in the proposed funded service area;

Total Square Miles in Service Area: 1
Total Population in Proposed Service Area: 223
Total Number of Households in Service Area: 192
Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area:
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 17,083
Estimated Percentage of Households with Access to Broadband: 59
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: npt
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: 1,921
Total Number of Households in Service Area: 820
Total Number of Businesses in Service Area: 30
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 25,709
Estimated Percentage of Households with Access to Broadband: 59
Estimated Percentage of Households Subscribing to Broadband: 44



Broadband Infrastructure Application
Submission to NTIA – Broadband Technology Opportunities Program

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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Service Area Type: Middle Mile
Service Area Name: oig
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: 3
Total Population in Proposed Service Area: 3,760
Total Number of Households in Service Area: 1,382
Total Number of Businesses in Service Area: 328
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 5
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 53,464
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Last Mile
Service Area Name: pas
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: 18,397
Total Number of Households in Service Area: 8,682
Total Number of Businesses in Service Area: 1,751
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: 33,130
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59



**Broadband Infrastructure Application
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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Service Area Type: Last Mile
Service Area Name: let
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: 137
Total Number of Households in Service Area: 44
Total Number of Businesses in Service Area: 1
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 15
Median Income in the Service Area: 33,310
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: phk
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: 3,476
Total Number of Households in Service Area: 1,407
Total Number of Businesses in Service Area: 237
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4



**Broadband Infrastructure Application
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Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 32,202
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Last Mile
Service Area Name: fwn
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: 8,334
Total Number of Households in Service Area: 4,250
Total Number of Businesses in Service Area: 1,647
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 16
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 34,456
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: plo
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;



**Broadband Infrastructure Application
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Total Square Miles in Service Area: 16
Total Population in Proposed Service Area: 6,813
Total Number of Households in Service Area: 2,845
Total Number of Businesses in Service Area: 750
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: 38,875
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: qce
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: 10
Total Population in Proposed Service Area: 591
Total Number of Households in Service Area: 284
Total Number of Businesses in Service Area: 40
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 40,385
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: ruc



**Broadband Infrastructure Application
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Task: Submit Application - BTOP	Applicant Name: Mr. Dave Spencer

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: 954
Total Number of Households in Service Area: 500
Total Number of Businesses in Service Area: 30
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 15
Median Income in the Service Area: 25,284
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: ret
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: 100
Total Number of Households in Service Area: 42
Total Number of Businesses in Service Area: 2
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 45,694
Estimated Percentage of Households with Access to Broadband: 58



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

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Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: rve
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: 1,736
Total Number of Households in Service Area: 777
Total Number of Businesses in Service Area: 100
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 6
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 32,560
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: rer
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: 3
Total Population in Proposed Service Area: 1,829
Total Number of Households in Service Area: 647
Total Number of Businesses in Service Area: 75



**Broadband Infrastructure Application
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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 43,090
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: sbk
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: 29
Total Population in Proposed Service Area: 3,436
Total Number of Households in Service Area: 1,282
Total Number of Businesses in Service Area: 20
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 41,000
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: swy
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.



**Broadband Infrastructure Application
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Task: Submit Application - BTOP	Applicant Name: Mr. Dave Spencer

Total Square Miles in Service Area: 334
Total Population in Proposed Service Area: 8,658
Total Number of Households in Service Area: 3,324
Total Number of Businesses in Service Area: 723
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 6
Unemployment Rate in the Service Area: 9
Median Income in the Service Area: 37,914
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: sre
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: 7
Total Population in Proposed Service Area: 15,816
Total Number of Households in Service Area: 6,246
Total Number of Businesses in Service Area: 700
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 23
Unemployment Rate in the Service Area: 6
Median Income in the Service Area: 48,164
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: ttn
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: 2
Total Population in Proposed Service Area: 1,154
Total Number of Households in Service Area: 363
Total Number of Businesses in Service Area: 15
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 30,052
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: the
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: 8,946
Total Number of Households in Service Area: 2,440
Total Number of Businesses in Service Area: 289
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 26,950
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: tct



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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: 2
Total Population in Proposed Service Area: 396
Total Number of Households in Service Area: 135
Total Number of Businesses in Service Area: 15
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 37,500
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: tap
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: 1,561
Total Number of Households in Service Area: 709
Total Number of Businesses in Service Area: 50
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 43,594
Estimated Percentage of Households with Access to Broadband: 58



**Broadband Infrastructure Application
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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: wpo
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: 4,582
Total Number of Households in Service Area: 1,198
Total Number of Businesses in Service Area: 115
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 6
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 25,804
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: wol
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: 13,880
Total Number of Households in Service Area: 3,463
Total Number of Businesses in Service Area: 712
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 13
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 38,719



**Broadband Infrastructure Application
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Task: Submit Application - BTOP		Applicant Name: Mr. Dave Spencer	

Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: wta
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: 260
Total Number of Households in Service Area: 133
Total Number of Businesses in Service Area: 10
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 11
Median Income in the Service Area: 34,699
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: wsn
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: 100



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

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Task: Submit Application - BTOP	Applicant Name: Mr. Dave Spencer

Total Population in Proposed Service Area: 3,033
Total Number of Households in Service Area: 891
Total Number of Businesses in Service Area: 30
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 3
Unemployment Rate in the Service Area: 13
Median Income in the Service Area: 35,189
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: whm
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: 253
Total Number of Households in Service Area: 194
Total Number of Businesses in Service Area: 4
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 11
Median Income in the Service Area: 26,667
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: zlh
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: 23
Total Population in Proposed Service Area: 2,198
Total Number of Households in Service Area: 937
Total Number of Businesses in Service Area: 60
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 2
Median Income in the Service Area: 38,214
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: cem
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: 4,597
Total Number of Households in Service Area: 1,532
Total Number of Businesses in Service Area: 206
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 9
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 28,144
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: hts
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: 6
Total Population in Proposed Service Area: 306
Total Number of Households in Service Area: 135
Total Number of Businesses in Service Area: 5
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 13
Median Income in the Service Area: 22,143
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: iao
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: 1,337
Total Number of Households in Service Area: 516
Total Number of Businesses in Service Area: 44
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 5
Unemployment Rate in the Service Area: 14
Median Income in the Service Area: 29,632
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44



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Service Area Type: Middle Mile
Service Area Name: iaa
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: 6
Total Population in Proposed Service Area: 3,026
Total Number of Households in Service Area: 1,140
Total Number of Businesses in Service Area: 30
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 7
Median Income in the Service Area: 52,852
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: nms
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: 7,500
Total Number of Households in Service Area: 3,371



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Total Number of Businesses in Service Area: 200
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 6
Unemployment Rate in the Service Area: 9
Median Income in the Service Area: 59,333
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: ndd
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: 837
Total Number of Households in Service Area: 395
Total Number of Businesses in Service Area: 16
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 38,182
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: ola
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: 7
Total Population in Proposed Service Area: 3,927
Total Number of Households in Service Area: 1,266
Total Number of Businesses in Service Area: 80
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 64,800
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: pwd
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: 1,209
Total Number of Households in Service Area: 348
Total Number of Businesses in Service Area: 21
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 11
Unemployment Rate in the Service Area: 13
Median Income in the Service Area: 51,162
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: prn



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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: 18
Total Population in Proposed Service Area: 222
Total Number of Households in Service Area: 98
Total Number of Businesses in Service Area: 12
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 44,947
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: soh
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: 8,801
Total Number of Households in Service Area: 3,276
Total Number of Businesses in Service Area: 831
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 6
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 46,396
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59



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Service Area Type: Middle Mile
Service Area Name: wpt
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: 12
Total Population in Proposed Service Area: 1,200
Total Number of Households in Service Area: 480
Total Number of Businesses in Service Area: 10
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 14
Median Income in the Service Area: 32,171
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: psr
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: 4,838
Total Number of Households in Service Area: 1,697
Total Number of Businesses in Service Area: 203
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 4
Unemployment Rate in the Service Area: 8
Median Income in the Service Area: 39,185



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Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: ste
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: 84
Total Population in Proposed Service Area: 571,293
Total Number of Households in Service Area: 287,060
Total Number of Businesses in Service Area: 64,496
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 1,053
Unemployment Rate in the Service Area: 9
Median Income in the Service Area: 61,055
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: svy
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: 53
Total Population in Proposed Service Area: 80,927
Total Number of Households in Service Area: 34,346
Total Number of Businesses in Service Area: 3,000
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 61
Unemployment Rate in the Service Area: 10



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Median Income in the Service Area: 40,309
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: ske
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: 59
Total Population in Proposed Service Area: 206,845
Total Number of Households in Service Area: 94,125
Total Number of Businesses in Service Area: 16,307
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 166
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 40,495
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: usk
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: 765
Total Number of Households in Service Area: 284



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Total Number of Businesses in Service Area: 15
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 2
Unemployment Rate in the Service Area: 13
Median Income in the Service Area: 38,363
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: fkn
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: 31
Total Population in Proposed Service Area: 32,066
Total Number of Households in Service Area: 9,619
Total Number of Businesses in Service Area: 1,035
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 12
Unemployment Rate in the Service Area: 9
Median Income in the Service Area: 34,540
Estimated Percentage of Households with Access to Broadband: 72
Estimated Percentage of Households Subscribing to Broadband: 59

Service Area Type: Middle Mile
Service Area Name: and
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: 16,461



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Total Number of Households in Service Area: 7,536
Total Number of Businesses in Service Area: 1,205
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 12
Unemployment Rate in the Service Area: 10
Median Income in the Service Area: 30,683
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

Service Area Type: Middle Mile
Service Area Name: mne
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: 13,795
Total Number of Households in Service Area: 4,427
Total Number of Businesses in Service Area: 1,197
Total Number of Community Anchor Institutions and Public Safety Entities in Proposed Funded Service Area: 12
Unemployment Rate in the Service Area: 5
Median Income in the Service Area: 50,390
Estimated Percentage of Households with Access to Broadband: 58
Estimated Percentage of Households Subscribing to Broadband: 44

F. Community Anchor Summary

Community Anchor Summary



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Schools (k-12)	98
Libraries	42
Medical and Healthcare Providers	10
Public Safety Entities	27
Community Colleges	5
Public Housing	2
Other Institutions of Higher Education	1
Other Community Support Organization	30
Other Government Facilities	70
TOTAL COMMUNITY ANCHOR INSTITUTIONS	285
Historically Black colleges and Universities	0
Tribal Colleges and Universities	0
Alaska Native Serving Institutions	0
Hispanic Serving Institutions	1
Native Hawaiian Serving Institutions	0
TOTAL MINORITY SERVING INSTITUTIONS	1

G. Project Benefits



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Demographics

Jobs	
How many direct jobs-years will be created from this project?	105
How many indirect jobs will be created from this project?	319
How many jobs will be induced from this project?	239

Methodology used to estimate jobs:

The State of Washington Broadband Consortium will utilize the Table 5 of the U.S. Federal Government document “Estimates of Job Creation from the American Recovery and Reinvestment Act of 2009”. Using that methodology, the total spending request of \$61,032,935 will create or preserve a total of 663 job years. Of that total, 64% of the total job years, or 424 job years, represent direct and indirect effects. Of these 424 job years it is estimated that 105 job years will be direct while 319 will be indirect. The direct number was derived by survey of the sub-participants to determine whether new jobs would be added or existing jobs preserved should this proposal be awarded. 36%, or 239 job years, represent induced effects of the program. We believe these estimates are difficult to substantiate by other methods, particularly induced effects, as these are very difficult to measure with electronic equipment vendors in particular. The State of Washington Broadband Consortium commits to maximize the total job creation within the budget and technical constrains of the overall project.

Project Impact:

This proposal leverages the capabilities of each major partner to deliver the broadest possible broadband reach into rural under served areas of the state, while providing access to information and networks in the service areas described in this proposal. The new service will access the State of Washington’s (SoWA) State Government Network (SGN) and Inter-government Network (IGN), including Library-Net, Justice-Net, Education-Net, and Health-Net. Locally sponsored initiatives by anchor institutions are directly supported through the Open Access provided by NoaNet, as well as providing the reach into these rural under served areas and providing a platform for last-mile providers to give households access to broadband in the service areas.

The service areas identified in this grant are generally under served to the point where commercial service providers offer limited services and no high capacity services. It is not unusual for telephony-based services to be unavailable in the more highly remote areas, and



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down for days at a time. Cellular services are also unreliable in rural and remote target areas where rugged terrain impacts cellular data services.

Through the interexchange capabilities, higher education institutions (such as the University of Washington [UW], Washington State University [WSU], Peninsula Community College, and Yakima Valley Community College) will be provided access to on going research and to research networks (I2 and NLr). The access of these educational institutions will provide opportunities for collaboration on research and information exchange between these institutions with extensive reach into the 34 community college systems in Washington state. Through these colleges, access can be provided to courses that are geographically unavailable in remote locations; but also allow the community colleges (in fact, encourages it) to take on their own research efforts. Colleges, such as Wenatchee Valley College provide the highest percentage of education to Tribal residents, such as the Kalispell tribe. These research networks (I2 and NLr) will be accessible to the libraries and K-12 schools through the SoWA's K-20 network.

The economic benefit of broadband access into these educational institutions provides access to a more highly educated population for businesses throughout the state. Broadband access with these value added services also provides an attraction to new businesses into these economically depressed areas.

Health research available from the UW Health Sciences Center and consultative services from UW Hospital will be available via a Telemedicine capability. NoaNet's enablement of reach to rural health care centers, and other anchor institutions such as Colleges and Libraries and rural clinics will provide access where doctors can support diagnostic care from the State's metropolitan areas into the remote areas of the state without the need for extended trips to these remote areas. It also facilitates emergency care into these rural areas through the consultative abilities to larger hospitals. Pharmacology between rural dispensaries and central distribution centers enhance the potential of bringing life saving drugs into rural areas.

A key educational and economic benefit of broadband distributed through anchor institutions (such as Peninsula College) is the free and open access to the Internet for: Online job searches, job applications, online job training, career development, continuing education, online language training and translation services, online early learning and language training tied into the local schools (through the K-20 and Library-Net), health presence/telemedicine – the enablement of online medical care through real time voice and video, coupled with remote health screening data



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diagnostics (e.g. temperature, blood pressure, etc) from the patient, online access to government services (such as social services) that is immediate and responsive when compared to social workers visiting the area once per month (through SGN and IGN).

Possibly the most vital and life saving benefit of building a broadband infrastructure in under served areas of the state is the enhancement of E-911 services. According to the SoWA Emergency Management Division, this project will offer the ability to provide enhanced E-911 services to virtually every inhabited location in the State. This enhanced capability will allow geo-location mapping that will dramatically improve emergency response time in rural and wilderness regions of the state. Furthermore, expanded and enhanced E-911 service will improve “golden hour” responses. What the “golden hour” refers to is the first hour after an injury where medical treatment is provided resulting in improved chances of survival by 90%. These enhancements will also facilitate a more robust and responsive Amber Alert system. Law enforcement agencies can enhance response with the ability to respond to emergent situations, such as suspect pursuit, to minimize the danger of such pursuits to citizens. Expanding broadband to the Correctional Anchor Institutions (e.g. Clallam Bay Prison) will connect these institutions to the Tele-justice centers through the SoWA Justice-Net thus eliminating the need to transport prisoners up to 4 hours between the prison and judicial government centers. Leveraging broadband to connect urban and rural area judicial systems will provide officers of the court with on-line access to centralized judicial information centers for more effective court proceedings. Interconnecting rural and urban areas also provides the potential for increased physical safety by adding security cameras and recording devices in areas where regular patrols by law enforcement are not feasible. Therefore, extending the reach of broadband is a force-multiplier for law enforcement, emergency response, and the justice system.

This project will enhance access to on-line learning between schools throughout the state and Parks and Recreation. We will effectively bring Park rangers and their unique educational credentials into the schools. Connecting anchor institution parks and key “state assets” that are unique to the state, such as the William T. Wooten Environmental Learning Camp provides unique learning opportunities to state education anchor institutions. This would expand the ability of education (through WSU) and Parks and Recreation anchor institutions to remotely monitor vast areas of the state’s natural resources and historical treasures through sensors and other measuring devices to provide early warning for wildfires, measure the effects of acid rain, water quality and temperature, and the capability to estimate emergency response needs in extreme remote areas. Also, Parks and recreation will receive economic benefits and create



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additional jobs through the ability to offer on-line campsite registration, monitor boat moorings, and support historical preservation of key sites throughout the state.

Rural and remote businesses in the state will realize substantial economic benefit and job growth from Open Access broadband. For example, simple activities such as credit card swipes and internet-based e-commerce will now be available. Businesses will be enabled to use credit/debit card systems, automated inventory and fulfillment systems, and web sales that are currently unavailable or extremely limited access today. Niche and smaller retail outlets will now be able to leverage the power of advertising through e-commerce websites in the anticipation of growing their businesses. Farmers will be able to participate in commodities trading that are currently unavailable to them – a key competitive disadvantage to the family farmer. This will result in farmers being able to secure fair prices for their goods and provide access to a greater distribution network than would otherwise be available to them.

The proposed project will connect to 285 anchor institutions throughout the state, including Public Libraries, State Parks, community parks and recreation centers, Community Colleges, major Universities (both University of Washington and Washington State University), Law Enforcement, EMS and Justice Centers, and schools. We currently estimate that the network can be extended to add hundreds of additional anchor institutions and the network is build to scale without redesign. NoaNet has experienced in previous build-outs that service providers have shown interest in connecting to, or building out their own, broadband capabilities in support of last mile build-out, of which two such projects are included in this proposal.

Vulnerable Populations:

The proposal will reach more than 60 economically distressed communities with a median income less than 80% of the national average and 17 communities with a median household income less than 50% of the national average. There are 50 communities which will receive broadband support for their anchor institutions which have populations with percentages of people living below the poverty level that is well above the national average. Many of the communities have a higher than average household size implying a very high percentage of children in the communities. We will reach 25 communities that have higher than the national average population of citizens over the age of 65. Additional we have targeted 30 communities with high school graduation rates below the national average.

We believe that according to studies by the FCC and other independent groups that by targeting these communities and working with the local libraries, community colleges, county agencies



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and state agencies we can extend broadband to the anchor institutions and create educational, economic, and employment opportunities for these vulnerable populations. By coordinating with entities such as ESD 105 to ensure there are sustainable adoption programs and working with Peninsula College and Yakima Valley College to ensure that early education opportunities for Science, Math, Engineering and Technology (SMET), gives the next generation of citizens in these very distressed areas hope.

Enabling public safety projects for mobile data in areas where health care is a long ways from the citizens means these communities with unusually high percentages of senior citizens can receive immediate improvements in treatment during that critical “golden hour”. Improving the survivability of a patient with more aggressive treatment early into an event, will reduce health care costs for everyone by reducing the length of hospital stays. It will improve health care and provide economic options for the poorest of the poor within our communities. The anchor institutions, by receiving high capacity broadband, will be able to offer improved programs and reach more citizens. With the additional support programs offered by the colleges and ESD 105, citizens which are struggling to get by will have opportunities for self improvement not available today.

Native American nations are also a part a focus of this grant submission. The Yakama, Suquamish, Kalispell and Tulalip Tribes are each involved. These tribes have poverty and unemployment rates exceeding the national averages. Native American life expectancy is much less than national average. Economically, Native Americans are considered the most impoverished people within the United States.

Additional information is provided in the upload section concerning the census information for the service areas for reference.

Level of Need:

This proposed broadband project is designed to positively effect citizens lives in the underserved service areas. Although Qwest, CenturyLink, and Verizon provide voice services to most of the service area (some areas have no telephone service requiring people to travel to a central area where voice telephony is available), broadband availability is limited or non-existent. There are a variety of circumstances, from economic standing to technical issues. To summarize the economic situation, income levels in these service areas are well below the state average income (approximately \$14,000 below) and unemployment is well above the state average (approximately 10%). In Native American tribal service areas, unemployment approaches 50%



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and poverty levels exceed 40% of the national average. In some counties (e.g. City of Ellensburg, Kittitas County), a full third of the population exist below the federally defined poverty level. A primary goal of this proposed project is to significantly improve people’s lives and economic opportunity through open access to broadband services and the Internet.

This grant opportunity would provide and expand open Internet access (a key NOFA requirement), and value added networks (e.g. SGN, IGN, Library-Net, Justice-Net, K-20, Education-Net, Health-Net)that support state social services. It will also open access to networks that have global reach (I2 and NLR) and directly benefit Community College anchor tenants and K-12 schools.

Many of the anchor institutions have sought service level upgrades from the major service providers and have been been refused additional services all together or offered higher service levels at such a high recurring price structures that it is unaffordable. This information was obtained through multiple competitive bidding processes (RFI/RFP) conducted by the SoWA’s Department of Information Services – a summary of this information is contained in elsewhere in this proposal. In addition, RFI/RFP results can be provided through the Dept. of Information Services on request. NoaNet specializes in providing broadband services to rural/remote areas where provisioning is difficult or non-existent and has many supporting case histories beyond those included in this proposal.

Public Safety enhancements are a key objective of this project. Enhancements and extension of E-911 service throughout the state is a critical governmental public safety need. Today’s E-911 system is not holistically effective across all populated areas of the state. The extent of the broadband reach to the middle mile, and eventually to the last mile, will provide more ubiquitous service and provide the ability to download emergency response information and mapping details that cannot be accomplished without broadband capabilities. This reach of broadband into these rural and remote areas of the state would be cost prohibitive through commercial means or state resources. Where broadband is not provided in these under/un-served areas E-911 emergency response is extremely limited or non-existent.

In the city of Port Angeles, WA, the police department has chosen to build out a public safety wireless network to enhance the data services available to law enforcement; however, the broadband support necessary to enable this project do not exist and would require prohibitive construction costs to provide into this service area. Locally, these services would be available



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through the deployment of broadband to the mobile law enforcement officer, leveraging the dedicated 4.9 GHz public safety wireless networking frequency band. This architecture would be a pilot program utilizing wireless mesh technologies that could be deployed in many municipalities throughout the state. In addition, using dual-band radio technology, a wireless meshed public service network can be effectively provided to a city where the average income rate is 60% of the national average.

Jefferson County, WA is also looking to pursue enhancements to their public safety network, along with the side benefit of providing broadband into areas currently underserved today. Jefferson County has made 4 attempts to solicit commercial service providers to provide access into the county in support of this effort, and other projects. These requests have been declined or accepted with prohibitively high capital and operational expenses, and are available on request. This project would not be possible through commercial means.

In Educational Services District 105 (southern Washington State), the public library access to fiber optics and other network connections are geographically limited, and do not have the capital dollars necessary to facilitate such a fiber build out. Turned down by the incumbent, NoaNet has proposed to provide wireless connectivity to the library that will provide support to a highly vulnerable population. The population of Buena and Pacific Grove has a high unemployment rate, predominantly Native American population, and an income level that is 40% of the national average. Free access to library based Internet services will provide many of the benefits already identified in previous sections, but include education, job training, job searches and applications, and access to tele-medicine services as examples.

One of the areas affected by the 2000 Earthquake in the Seattle area was Kitsap County. The effect of this natural disaster was to render the Public Telephone network unusable for nearly 1 full week. As a result, Kitsap County has been developing a disaster response network called CareNet to provide an alternative routing of telephone and data services than is currently in use, while providing additional access to the underserved in the County. This project has reached a development impasse due to capital cost concerns for the balance of the network, predominantly due to construction costs. Completion of this effort will provide a more robust capability to survive natural disasters and maintain vital public safety communications that are vital during natural disasters.



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Several areas of eastern Whatcom, Skagit, and Snohomish counties are broadband limited due to physical terrain issues, making commercial service offerings in the area cost prohibitive. The proposed project provides that broadband service to an anchor institution, enabling Bedrock Cable to provide last mile service at affordable rates. This is where a public/private partnership provides significantly enhanced service offerings to the general population that is cost prohibitive through commercial means.

The “Northern Tier” project, coupled with the Stevens County project, provide essential high-speed broadband services to an area that has historically been unable to achieve higher speeds than basic T-1 services. The primary obstacle has been the construction costs due to extremes in topology, volcanic rock geology, and access to the area due to harsh weather conditions. This project will provide anchor tenant service to multiple rural/remote cities in the area, such as Republic and Colville, and enable service providers to provide local loop and last mile services at affordable build out rates to a 4 county area.

The Tulalip Tribe, a Native American nation, is seeking to provide enhanced broadband services to their tribal region to enhance educational opportunities, and to support and enhance the preservation of their cultural heritage. In addition, interconnection of economic development facilities throughout the tribal area is a key tribal operational goal and is geographically dispersed in the Puget Sound area. This area is a highly vulnerable population with poverty rates exceeding 50% in the service area and is historically under-represented and underserved with broadband capabilities.

A key objective of the NOFA is the support to commercial service providers in the area to extend beyond this project into the last mile of service. There are four such initiatives in this proposal. The first is a project in the Yakima Valley to interconnect disparate broadband components and provide ubiquitous service to a highly vulnerable population (Yakama Tribal areas, predominantly). This project is a joint cooperative effort with the Yakama Tribe and Yakama Power to provide statewide access that is currently not possible. This also combines round 1 efforts to complete the overall system. The second project is the completion of a “comprehensive communities” project originally initiated by the State of Washington. This project will connect anchor institutions and provide service that has been historically impossible due to high construction costs. These areas are highly underserved as demonstrated through an RFP response process and can be obtained on request. The third project is called OPSCAN, which provides interoperability for public safety, and first responders in historically underserved



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areas, and is a continuation of a federal program into these areas. Finally, a joint project with Inland Telephone to provide middle mile services and enable Inland Telephone to complete a project to provide last mile services. Inland Telephone will self-fund the last mile efforts; however, this project proposes to provide middle mile services so that Inland Telephone can deploy 4G mobile technology in an area that has been proven to be highly underserved.

H. Technology

Technology Type

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

Wireline - Fiber-optic Cable

Wireless - Terrestrial Fixed

Wireless - Terrestrial Mobile

Other:

Technology Questions

Methodology for Area Status:

The services areas selected were based on anchor institutions which claimed a need for new or expanded broadband services. Once the anchor institutions were surveyed all anchors institutions which had fiber based high capacity services available to them were removed. The remaining anchors were then grouped geographically and service areas were built with an eye towards establishing new Points of Interest, POI, particularly in unserved and underserved areas of the state. Once the service areas were defined we then identified the local service provider(s) and checked the website for the advertised speeds for the service area. If the website was not clear in its service offerings then the local chamber of commerce or anchor institutions were surveyed to determine what services were advertised locally.

Description of Network Openness:

Northwest Open Access Network and its joint filing strategic allies (the .Strategic Allies.) manage their networks in accordance with the FCC's Internet Policy Statement (FCC 05-151,



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adopted August 5, 2005). NoaNet using “Open Access” in our company name demonstrates our commitment to the practice of operating open networks. We have operated as a open access, non-discriminatory wholesale carrier since incorporation, over ten (10) years. As such, we promote our customer’s ability to freely access and disseminate lawful content in a manner that respects others’ use of the network and that complies with the law.

NoaNet and its Strategic Allies do not discriminate or favor any lawful Internet applications, content, or services where lawfully used. The Network supports industry practices for safeguarding children, intellectual property rights, and Network customer’s privacy and security. NoaNet and its Strategic Allies follow standard best efforts for Internet delivery with respect to allocation of capacity without differentiation among applications, providers, or sources. NoaNet and its Strategic Allies use generally accepted technical measures to provide acceptable service levels to all customers, such as application-neutral bandwidth allocation, as well as industry standard measures to address service attacks, illegal content and other harmful activities to protect network integrity and reliability.

In accordance with the NOFA requirements, NoaNet and its Strategic Allies will post this Nondiscrimination and Network Management Policy statement to our websites and will list each of the FCC’s Internet Policy Statement points separately.

Interconnection Obligation

Northwest Open Access and our Strategic Allies will offer interconnection to facilities, where technically feasible without exceeding current or reasonably anticipated capacity limitations, on reasonable rates and terms to be negotiated with requesting parties. NoaNet and our Strategic Allies will negotiate in good faith with all parties making a bona fide request for access to the public Internet. Interconnection includes requesting parties’ ability to connect to the public Internet and physical interconnection for the exchange of Internet traffic. NoaNet will work with each of the Strategic Allies in this project to ensure full compliance with the requirements.

System Design:

The State of Washington Broadband Consortium Network consists of a layer 1 Dense Wave Division Multiplexing (DWDM) backbone, supporting layer 2 Ethernet switched and layer 3 TCP/IP routing facilities. The backbone provides multi-wavelength diversity, L2 VLAN, and L3VPN services for the anchor institutional networks. The Network features over 130 Points of Presence (PoP) throughout the State of Washington (WA). Only 6 of these PoPs are in



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metropolitan areas while the majority serves rural counties and remote areas. The PoPs, located in 36 of the state's 39 counties and supported by consortium partner facilities and 3rd party carriers, will provide broadband Internet access to nearly all of Washington's citizens.

The Network features DWDM, time-division multiplexing (TDM), Ethernet, and Internet access services at each PoP. The network carries more than 200 gigabits of data services, 116,000 long distance access lines, 170,000 Internet users, and 69,000 video subscribers. The proposed network provides interconnection to The State Governmental Network / Inter-Governmental Network (SGN/IGN) which conducts over \$1Billion/month in e-commerce transactions and supports many services for the citizens of Washington. The K 20 Education Network (K-20) carries over 3 terabytes/day of Internet and institutional administrative traffic for the 296 K-12 school districts, the 34 community and technical colleges, and 6 baccalaureate institutions supporting over 1.5M students, teachers, and faculty. The proposed network will ensure that nearly all of the K-12 sector's 1,800+ buildings are fiber connected for broadband services and Internet access.

The State of Washington Broadband Consortium Network operating model provides open-access wholesale delivery of broadband telecommunications and Internet access services to retail providers who sell those services to subscribers. The retail solutions range from Ethernet L2 VLAN/VPN and L3VPN services to modulated DWDM bandwidth (SONET / 1GE / 10GE). Both public and private subscribers on the network leverage these retail providers to obtain last mile access for broadband services. Subscriber last mile bandwidths range from 5 mbps rate-limited Ethernet to 10G DWDM configured as SONET or 10GE. Subscribers can obtain Internet Service Provider (ISP) services from retail providers. The Consortium has 5 current last mile providers that have shown intent to provide services over the network.

The network further leverages partnerships with public utility district (PUD) wholesale telecommunications providers, ILECs, CLECs, CATV, and wireless service providers to ensure that the subscriber coverage for broadband services is as complete as possible and affords the maximum last mile deployment through commercial service providers. Furthermore, the consortia provides Tier 1 interexchange services to the public Internet, Internet-2, and research networks for both private and public-sector subscribers on the Network.

The existing and proposed network includes several standards-based technology implementations:

- DWDM equipment (e.g. ADVA, Cisco, etc.) for efficient use of fiber resources at the lambda (wavelength) level,



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- Multiservice provisioning platforms (MSPP) and multiservice Transport Provisioning (MSTP) systems (e.g. Cisco) for SONET/Ethernet services in either UPSR, SRP, or BLSR redundant configurations,
- High-capacity Ethernet switches for layer 2 (L2) services (e.g. Cisco, etc.), and
- High-performance routers (e.g. Cisco, Juniper, etc.) for TCP/IP routing and layer 2.5 MPLS L3VPN services

The proposed Round 2 Network expands fiber routes and telecommunications for the middle mile to expand broadband capacity to underserved areas within the state, and current and new anchors and new subscribers.

The Network guiding principles are:

(1) Point of Presence (PoP) equipment is in one of three classes:

(a) Class 1: provides add/drop waves, provides multiple 10GE drops/uplinks, provides multiple 1GE drops, and L2E VLAN services

(b) Class 2: provides L2E VLAN services, and provides multiple 100 Mbps and 1GE drops/uplinks

(c) Class 3; provides L2 VLAN services and provides multiple 100 Mbps Ethernet drops

(2) Class 1 PoPs will be provided in newly constructed areas where aggregated demand is estimated to require Class 1 capacities within this proposed project and will enable retail providers to have immediate access to high capacity services in those areas

(3) Fiber plant on constructed routes will reserve four pairs of fibers for backbone/middle mile high capacity express routes, with two reserved for maintenance

(4) Unserved and underserved service areas as defined in other sections of this grant request will be demand provisioned in one of two ways:

(a) With an outside cabinet PoP in the area or open access collocation suite with distribution of fiber pairs provisioned with 1 Gbps uplinks in two directions for interconnection to two active PoPs for diversity or,

(b) Where a middle mile route is constructed, but no demand currently exists, an Open Access PoP will be created in either an open access collocation facility or an outside cabinet. When demand is identified, retail service providers can access the infrastructure.

The proposed network projects and service areas are defined in sections 7, 10, 12, and 18-13 of this grant proposal.

These proposed projects extend both the existing network and NTIA BTOP Round 1 Network to support Anchor Institutions and subscribers with additional middle mile, and some last mile



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builds, including appropriate Class 1, 2, or 3 electronics as noted above. The network diagram(s), maps, and bill of materials provide details for all of the projects are defined in section 18 of this grant proposal.

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	3,217,033	1,833,474
Middle Mile	52,063,764	21,888,106
Total	55,280,797	23,721,580

Project Budget Total: \$79,002,377

Match Percent: 30.0%

Projects Outside Recommended Funding Range:

- The total project budget for this proposal is within the project size recommended in the NOFA.

Outside Leverage	
Applicant is providing matching funds of at least 20% towards the total eligible project costs?	Yes
Matching cost detail	<p>The key partners providing cash and matching in-kind funds for the proposed project come from public, private and non-profit sectors. In addition we have Native American and SBA defined small and disadvantaged businesses participating.</p> <p>Cash Contributors: There were 23 different entities providing cash</p>



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	<p>towards the matching funds for this proposal. The entities come from Public Safety, Cities, Counties, Public Utilities, Tribal Nations, libraries, non-profits, and private companies. A separate list of individual contributions can be found in the supplemental uploads titled "Matching Funds Breakdown.xls"</p> <p>The cash matching funds total \$5,672,138. The list of contributors are:</p> <ul style="list-style-type: none"> Kitsap Regional Library Kitsap County Port Orchard Bremerton Poulsbo Bainbridge Island Suquamish Tribe Fire: South, Central, North CenCom/DEM Kitsap County PUD Gates Foundation City of Port Angeles NoaNet Pend Oreille County PUD Jefferson County (JeffCom) SawNet Clark County Stevens County PUD Application Prep Benton County PUD Cisco Juniper CHR Consulting Dept. Information Services <p>Each of these entities have generally used internal funds as noted on the spreadsheet in the supplemental section. The cash will be used for infrastructure deployment.</p>
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	<p>In-kind matching funds contributors: There are 11 entities providing matching in-kind assets for the proposal. These entities again range from counties, Tribal nations, Public Utilities, non-profit and private companies. The list of contributors is: NoaNet Pend Oreille County PUD Okanogan County PUD Stevens County PUD Blackrock Cable Tulalip Data Services/WA-RBC SawNet ESD-105 Benton County PUD Kalispel Tribe Jefferson, Kitsap, Stevens</p> <p>The details of the amount from each entity can be found in the previously referenced spreadsheet. These entities are generally contributing network infrastructure and assets necessary for the successful completion of the project. The entities have committed to using these assets to ensure the implementation and fulfillment of the project. The total in-kind assets being used as matching for this project is \$18,049,442.</p> <p>None of the cash or in-kind contributors will receive any benefit from the project that is not being provided to any other anchor institution.</p>
Unjust enrichment	<p>Northwest Open Access Networks has not secured nor is planning to secure additional federal funding for non-recurring costs associated with the serving areas outlined in this proposal resulting in unjust enrichment for itself or any of the entities with which it is partnering.</p>
Disclosure of federal and/or state funding sources	<p>Northwest Open Access Networks has not received or applied to receive any funding for this or related projects from any state or federal program outside of the NTIA BTOP program, including telecommunications-specific funds like the Universal Service Fund.</p>



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<p>Budget reasonableness</p>	<p>The project pricing and unit quantities established in this grant application were verified by CHR Solutions. CHR utilized the most recent pricing and/or unit quantity data available on current or recently constructed implementation projects. Cost data was further clarified in some cases by gathering additional budgetary vendor pricing clarification and/or updated discount pricing. Therefore, the unit quantities and pricing for proposed projects are considered reasonable. Additional pricing/unit quantity detail is outlined below:</p> <ul style="list-style-type: none"> • Outside Plant – Outside plant construction unit price estimates are reasonable and in accordance with recent pricing for similar projects. Unit quantities were derived by utilizing Geo-referenced CAD maps during the design phase to quantify the proposed construction units considered reasonable and necessary to build the project according to the design specifications. • MATI intends to have a significant amount of the design, staking, permits, plans and specifications and contracts with vendors in place prior to January 2010. As soon as funds are available MATI will proceed with the placement of cable. • FTTP Equipment – FTTP equipment cost estimates have been established by comparison against recent FTTP equipment contract prices on similar projects. • Wireless Equipment – Wireless equipment cost estimates were derived by comparison against recent equipment contract prices for similar projects.
<p>Demonstration of need</p>	<p>As evidenced in the financial documents and assumptions provided as support collateral for the project business case, the State of Washington Broadband Consortium would not be possible "but for" the assistance provided by the federal ARRA legislation. We have included all the requisite financial analysis information in the other sections of the grant, the Net Present Value calculation is \$4,130,030.17 based on a 15% discount rate. The NPV was determined after consulting with the financial consultant for NoaNet. Because of the remote nature, difficult terrain, and high construction expense associated of some of the areas being proposed in this project, private enterprise can not justify investments with such poor rates of</p>



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	return and would continue to overlook the underserved areas being illuminated by this middle mile construction, leaving residents of these areas without the advantage of broadband connectivity for years to come. With the help of the BTOP funds, NoaNet hopes to alleviate a portion of the digital divide experienced by these populations, and provide the advanced medical, safety and educational services only broadband can afford.
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Funds to States/Territories

States	Amount of Federal Grant Request
Washington	55,280,797

Funds to States/Territories Total: \$55,280,797

J. Historical Financials

Matching Funds			
	2007	2008	2009
Revenue	13,252,333	15,278,786	16,838,553
Expenditures	14,457,534	15,350,698	17,222,940
Net Assets	11,947,865	9,449,020	8,262,607
Change in Net Assets from Prior Year	1,868,117	2,498,845	1,186,413
Bond Rating (if applicable)			

K. Project Readiness

BTOP Organizational Readiness



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NoaNet, a wholesale telecommunications company, has been engaged in rural telecommunications since 2000. We have averaged 13% growth year over year since inception. NoaNet's governance includes a team of seasoned telecommunications executives reporting to a board of directors elected from management, staff, and/or commissioners representing our member organizations. The executive team leads NoaNet staff in four performance areas within the company: operations, engineering, finance and sales. The projects within this application are a natural extension of the business and operations that NoaNet manages daily. NoaNet currently manages more than 2,800 network devices deployed over 1,800+ route miles of fiber optic cables in Washington. An additional 14,000+ devices are managed passively. This infrastructure provides services to more than 260,000 Internet, voice, video customers and 463 schools, libraries and governmental institutions, through 62 service providers. NoaNet performs an average of 30 new service provisioning projects daily. NoaNet operates a Network Operations Center (NOC) in Spokane, WA. This NOC is fully staffed 24 hours a day 365 days a year. The NOC is responsible for customer premise equipment and last mile loops, provisioning support and helpdesk support services for single user local loop services. It provides monitoring and operational support for 13 other companies and telecommunications customers. Much the way it would provide support for operations and engineering of this proposed project. It also is responsible for the high capacity (greater than 100Mb) services and special customers as well as the Dense Wave Division Multiplexing network. The engineering department provides third and fourth level rotating on-call staff to support the NOC in trouble resolution and restoration. The NOC has deployed systems capable of monitoring and managing all aspects of projects contained within this application, including element monitoring, trending, ticketing, and change management. The current monitoring systems have the capacity to handle 25,000 active devices and 100,000 passive devices. NoaNet has a complete order management system which provides order tracking and service tracking for the NOC and engineering staff. The billing processes and workflow are managed through combination of in-house staff and an outsourced accounting firm - a combination that manages the whole of our invoicing, AP/AR, financial reporting, and auditing tasks. With the above OSS and BSS systems in place, NoaNet has the capacity in place to meet its 5 year projections for growth. The proposed BTOP grant will add 11% new end users over the 5 year projection period. The NoaNet business plan is projecting 8-10% growth, without the BTOP grant, annually in the core business segment which is a compound increase of 72% over the same 5 year period. The integration of the BTOP grant into the normal business means a minimal impact to the annual growth rate.

Construction and Vendor Contracts



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We have contracts in place with CHR Solutions, Sefnco, POTELCO and others to provide construction crews. In addition Cisco and Adva Optical, each with contracts in place, have submitted letters stating their ability and availability to install and complete the optronic part of the project. Finally our small works roster provides an avenue for vendors under contract to perform projects during our normal business which ensures depth of resources to complete the project.

Customer Base

The combined service providers provide broadband access to more than 65,000 end users within the service area. There are no anchor institutions that are provided with more than T-1 service, thus their inclusion in this application. Additionally many of the communities have restricted middle mile capabilities which prevent 3Mb and higher broadband service to the residence.

Licenses, Regulatory Approvals and Agreements

The Consortium has all the necessary licenses and regulatory approvals in place or in process for the wireless portions of this application. The primary spectrum to be used is the 4.9 Gigahertz range for public safety and spread spectrum unlicensed frequency for public access. The use of 6.25GHz where required is under either existing license or newly applied for license.

The Consortium has inter-agency agreements in place for shared use of towers where necessary. In places where tower or facility construction is planned it is on property owned by the participant. Use of utility poles for radio equipment has been agreed to by the Public Utility under inter-agency agreements. Joint use agreements are in place for shared infrastructure where appropriate. In anticipation of the quick construction requirements outlined in the NOFA, NoaNet will begin procurement of any other business operating agreements or amendments to existing contracts at the time NTIA accept this application as a valid application and the application has moved to the due diligence step.

The following permits are required to complete fiber construction:

- PSE Joint Use: applied for
- Qwest Joint Use: approved
- WA DOT: not applied for
- DNR: not applied for



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Jefferson County PW: pending
Kitsap County PW: pending
Ferry County PW: pending
Stevens County PW: pending
Port Angeles PW: pending

SPIN Number

There are three entities in this proposal which have SPIN numbers currently:

Applicant
NoaNet- 143024170

Sub-recipient
SawNet- 143020869

Contractor
CenturyLink- 143014130

L. Environmental Questionnaire

Project Description

This project will involve the construction of new facilities and approximately 496 miles of outside plant facilities in order to provide broadband services to rural areas of Washington. The proposed construction will take place in Adams, Benton, Clark, Columbia, Ferry, Franklin, Grant, Grays Harbor, Jefferson, Kitsap, Kittitas, Lewis, Lincoln, Mason, Pacific, Pend Oreille, Pierce, Okanogan, Skagit, Skamania, Snohomish, Spokane, Stevens, Thurston, Walla Walla, Whatcom and Yakima Counties of Washington.

Buried Plant

The buried plant will consist of fiber optic cables placed at a minimum depth of 36 - 42 inches below the surface in most areas along established roadways. Cable installed adjacent to road ROW will generally be within 5 – 10 feet of the public easement. Every effort is made to minimize environmental damage during the construction phase.

Aerial Plant



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The aerial plant will consist of fiber optic cables placed on existing pole lines. This construction requires make ready, placing strand and lashing the cable onto the strand. The construction will follow NESC Code rules as applied to attaching to existing pole lines.

Wireless Towers

For the purposes of this application, a typical wireless site is used to provide broadband access for the last mile in multiple locations. These sites will be designed according to local zoning ordinances and clearances.

Property Changes

This project will involve the construction of approximately 496 miles of outside plant facilities in Adams, Benton, Clark, Columbia, Ferry, Franklin, Grant, Grays Harbor, Jefferson, Kitsap, Kittitas, Lewis, Lincoln, Mason, Pacific, Pend Oreille, Pierce, Okanogan, Skagit, Skamania, Snohomish, Spokane, Stevens, Thurston, Walla Walla, Whatcom and Yakima Counties of Washington. Cable is proposed to be installed within previously disturbed county and state road rights-of-way.

Buildings

This project proposes construction of 2 pre-fabricated huts. The pre-fabricated huts are to house electronics and will be located at existing, previously disturbed tower sites in close proximity to existing shelters. This project is a linear construction project that is to be located within previously disturbed rights-of-way.

Wetlands

Based on data downloaded from the U.S. Fish and Wildlife Service’s National Wetland Inventory website, there are wetlands in the proposed construction area. Generally, stream crossings will be via bridge attachments, aerial inserts, or bores under the stream bed. All construction activities will be designed to avoid or minimize impacts on wetlands, floodplains, and riparian drainage. The attached map shows the listed wetlands in the proposed area.

Critical Habitats

The attached maps show that there are critical habitats encountered by the proposed construction. This data was downloaded from the U.S. Fish and Wildlife Service’s website. A list of species shown to be potentially impacted is provided in a separate attachment.



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The critical habitats appear to be largely located on or near rivers and streams. Due to the proposed routes being in previously disturbed rights-of-way and construction methods to cross streams via bridge attachments, aerial inserts, or bores under the streambed, the project does not anticipate any disturbance to any threatened or endangered species. The project will take necessary precautions to be aware of these species during construction. Construction routes and methods will be utilized to avoid critical habitats.

Floodplain

Portions of the proposed project are located within 100 and 500 year floodplains. The attached map shows the areas located within these floodplains and the counties with and without floodplain maps. No new buildings or other structures are proposed within the floodplains. All construction activities will be designed and are expected to avoid and/or minimize impacts on floodplains.

Protected Land

The listing for National Register of Historic Places from U.S. Department of Interior National Park Service is included on the maps. 204 sites are located within one mile of the proposed project. However, NOANET does not anticipate any disturbance to these sites as the proposed construction does not enter any of these buildings or sites. The proposed construction will also have minimal to no surface disturbance in these areas. No data was available at the time of this application submittal from the Washington Department of Archaeology and Historic Preservation (DAHP) for historical or cultural listings. A project description and map of the proposed construction has been submitted to DAHP.

1. No response from DAHP has been received to determine if the project is located on, within or adjacent to any properties listed in or eligible for listing in the National Register of Historic Places.
2. No response from DAHP has been received to determine if the proposed project will impact or alter a building or structure that was constructed more than 50 years ago. However due to the nature of the proposed linear construction, the project is not anticipated to impact any buildings.
3. Portions of the project are located on tribal lands.
4. Correspondence with DAHP is included as an attachment.

All construction activities will be designed to avoid or minimize impacts on protected lands.



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Coastal Area

There are coastal zone management areas in the proposed project area. The attached maps show the relation between the proposed project area and the coastal zone management areas. All construction activities will be designed to avoid or minimize impacts on coastal areas.

Brownfield

There are brownfield sites located within the project area. NOANET does not anticipate any disturbance to these sites as the proposed construction will be designed to avoid or minimize impacts on brownfield sites. The attached map shows the location of brownfield sites in relation to the proposed project. Construction methods and routes can be altered to avoid disturbance of any sites.



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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	Offerings and Competitor Data Attachment-1.xls	Spencer, Dave	03/26/2010
Network Diagram	Port Angeles Wireless Diagram.doc	Spencer, Dave	03/25/2010
Network Diagram	SWBC Network Diagrams v2.pdf	Spencer, Dave	03/25/2010
Build Out Timeline	NoaNet BTOP II - Project Schedule - FINAL.pdf	Spencer, Dave	03/25/2010
Build Out Timeline	NoaNet BTOP II - Build-Out Timeline Attachment _2_ v1 FINAL.pdf	Spencer, Dave	03/26/2010
List of Community Anchors and Points of Interest	Anchor+Detail+and+POI.xls	Spencer, Dave	03/25/2010
Management Team Resumes and Organization Chart	Resumes and Org Chart.pdf	Spencer, Dave	03/25/2010
Government and Key Partnerships	Section 18.6 Key Partners Upload vol 1.pdf	Spencer, Dave	03/25/2010



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Historical Financial Statements	NoaNet 2007 and 2008(2).pdf	Spencer, Dave	03/25/2010
Historical Financial Statements	NoaNet 09 Financials(2).pdf	Spencer, Dave	03/24/2010
Budget Narrative	NoaNet Rnd 2 Infra Budget Narrative 32610 version 1-1.doc	Spencer, Dave	03/26/2010
Detailed Budget	NoaNet Detail Budget Upload.xls	Spencer, Dave	03/26/2010
Pro-forma Forecast	ProForma Financial Projections TEMPLATE (static) 2-year.xls	Spencer, Dave	03/26/2010
Subscriber Estimates	Copy of upload+template++CCI++Subscriber+Estimates.xls	Spencer, Dave	03/26/2010
Dashboard Metrics	Metrics+Dashboard.doc	Spencer, Dave	03/26/2010
Service Area Data	Section 18 13 Service Area Data v6-1.xls	Spencer, Dave	03/25/2010
Network Maps	NoaNet BTOP Round II - Project Map FINAL.pdf	Spencer, Dave	03/25/2010



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BTOP Certifications	Section 18.16 BTOP Certifications TEMPLATE Signed.pdf	Spencer, Dave	03/26/2010
SF-424 C and D	Section 18.17 SF-424C_D TEMPLATE.pdf	Spencer, Dave	03/26/2010
Supplemental Information	Section 18.6 Key Partners Upload vol 2.pdf	Spencer, Dave	03/26/2010
Supplemental Information	Matching Funds Breakdown.xls	Spencer, Dave	03/26/2010
Supplemental Information	wa4.pdf	Spencer, Dave	03/26/2010
Supplemental Information	wetlands.JPG	Spencer, Dave	03/25/2010
Supplemental Information	NoaNet Round II - Environmental Map Tribal, EPA, Critical Habitat.pdf	Spencer, Dave	03/25/2010
Supplemental Information	WA905-01-002 DAHP Letter.pdf	Spencer, Dave	03/25/2010
Supplemental Information	NoaNet Round II - SHPO Map.pdf	Spencer, Dave	03/25/2010
Supplemental Information	FEMA Eviro.JPG	Spencer, Dave	03/25/2010



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Supplemental Information	SECTION 18.18 LAST MILE PROVIDERS LETTERS OF SUPPORT VOL 1.pdf	Spencer, Dave	03/25/2010
Supplemental Information	Section 18.18 PARTICIPANTS LETTERS OF SUPPORT vol 1.pdf	Spencer, Dave	03/25/2010
Supplemental Information	SECTION 18.18 PARTICIPANTS LETTERS OF SUPPORT VOL 2.pdf	Spencer, Dave	03/25/2010
Supplemental Information	SECTION 18.18 PARTICIPANTS LETTERS OF SUPPORT VOL 3.pdf	Spencer, Dave	03/25/2010
Supplemental Information	SECTION 18.18 PARTICIPANTS LETTERS OF SUPPORT VOL 4.pdf	Spencer, Dave	03/25/2010
Supplemental Information	SECTION 18.18 PARTICIPANTS LETTERS OF SUPPORT VOL 5.pdf	Spencer, Dave	03/25/2010