

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information		
1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570045	3. DUNS Number 161202122
4. Recipient Organization University of Wisconsin System Research & Sponsored Programs 21 N. Park St., Ste. 6401, Madison, WI 53715-1218		
5. Current Reporting Period End Date (MM/DD/YYYY) 03-31-2013	6. Is this the last Report of the Award Period? <div style="text-align: center;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </div>	
7. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.		
7a. Typed or Printed Name and Title of Certifying Official Dawn-Marie M. Roberts	7c. Telephone (area code, number and extension) 6082620152	7d. Email Address droberts4@rsp.wisc.edu
7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 05-14-2013	

Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).
 During the first quarter of 2013, UW completed conduit and fiber installations for the University Avenue service area and added an additional 2 community anchor institutions (CAIs) for a total of 91 CAIs and a total of 56.03 miles of new fiber. We also completed 90% of MUFN Phase 4 (16.4 miles of an 18.25 mile route change) though construction was halted as of 1/30/13 until approximately mid-April due to ice/snow in the conduits. UW received a grant extension until 6/30/13 in order to complete phase 4 work.

UW completed entry of fiber as-built information into a GIS-based conduit and fiber database system for phases 1-3 of the project and for the completed portions of phase 4. We also completed a 12-node optical network installation of ADVA hardware during the period.

In addition, UW created the Metropolitan Unified Fiber Network - Consortium, Unincorporated Association (MUFN-C, U.A.) under Wisconsin Statute 184. The consortium has begun the process of acquiring an IRS 501(c)(4) designation and is bootstrapping operations into long-term production. Finally, UW executed several agreements including a subrecipient agreement with the newly formed MUFN-C, U.A. and an amendment to the City of Madison subrecipient agreement clarifying agreement terms.

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2a.	Overall Project	95	Adverse winter weather conditions slowed and then halted construction (ice in conduits). Expect full completion by 6/7/13
2b.	Environmental Assessment	100	All environmental assessment work is complete.
2c.	Network Design	100	All network design activities are complete.
2d.	Rights of Way	100	All right-of-way acquisition activities are complete.
2e.	Construction Permits and Other Approvals	100	All construction permits and other approval activities are complete.
2f.	Site Preparation	100	All site preparation activities are complete.
2g.	Equipment Procurement	100	All equipment procurement activities are complete.
2h.	Network Build (all components - owned, leased, IRU, etc)	93	MUFN Phase 4 route change approval in early Dec. resulted in 18.25 miles to build (late start). Adverse winter weather conditions slowed and then halted construction on 1/30/13 due to ice in conduits. Anticipate completion by 6/7/13.
2i.	Equipment Deployment	100	All equipment installation activities are complete.
2j.	Network Testing	93	Anticipate completion by 6/7/13 after fiber installation is complete.
2k.	Other (please specify):	0	N/A

3. To the extent not covered above, please describe any challenges or issues faced during this past quarter in achieving planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

Wisconsin suffered a normal to severe winter season followed by significant rain in March. We have been unable to work in the conduit system since 1/30/13 due to ice in the system.

4. Please report the following information regarding network build progress. Write "0" in the Total column and "N/A" in the Narrative column if your project does not include this activity. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	72	Adverse winter weather conditions slowed and then halted construction (ice in conduits).
New network miles leased	0	No new network miles are being leased.
Existing network miles upgraded	56	NTIA determined that the segment associated with the UW Hospitals and Clinics lease will be counted as Existing Network Miles Upgraded once the the grant-funded equipment is used to light the miles.
Existing network miles leased	0	NTIA has determined that the segment associated with the existing WisDOT lease will be counted as Existing Network Miles Upgraded once the grant-funded equipment is used to light the miles.
Number of miles of new fiber (aerial or underground)	72	MUFN will finish with 74.3 miles of fiber completed by 6/7/13
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	99	We have 1 more upgraded interconnection point to finish as part of MUFN Phase 4 which will be completed by 6/7/13.

For questions 5 and 6 please include information relating to agreements that you are negotiating or have entered into, or that your sub recipient, contractor or subcontractor is negotiating or entered into.

5a. If applicable, please provide the following information with regard to agreements with broadband wholesalers and/or last mile providers as a result of your project.

Indicators	
Number of signed agreements with broadband wholesalers or last mile providers	2
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	7
Average term of signed agreements (in quarters)	50

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: SupraNet (formerly Citywide d/b/a Mad City Broadband), Wisconsin Independent Network (aka WINs)

5c. What wholesale services are being provided by this project? Please describe below. As an attachment to this report, please provide pricing plans (in \$ per month) associated with each wholesale service provided by your product (100 words or less). Wholesale services description:

MUFN wholesale services offered by the project include point-to-point dark fiber and point-to-point wavelength services (where fiber IRUs permit). See attached document (BTOP-MUFN-PricingPlan.pdf)

5d. If you have designated a third party to operate all or a portion of your network, please provide the name and contact information for this third party, indicate if this entity is a sub recipient, contractor, and/or subcontractor, and describe with specificity the portion of your network this third party operates (600 words or less).

The MUFN Consortium (subrecipient to UW) in collaboration with the City of Madison (subrecipient to UW), UW, WINs (subcontractor to MUFN-C) and SupraNet (subcontractor to MUFN-C) (formerly Citywide d/b/a Mad City Broadband) will operate the network together. SupraNet's contact information: 8000 Excelsior Drive, Madison, WI 53717, Bryan Chang 608-836-0282; UW-Madison's contact information: Pat Christian, 1210 W. Dayton St., Madison, WI 53706, 608-265-9699, WINMetro, LLC contact information: 800 Wisconsin Street, Building DO2, Suite 219, Eau Claire, WI 54703, Scott Hoffmann (715) 832-3722.

The City of Madison is responsible for maintaining conduit and fiber within the City of Madison jurisdiction. MUFN-C is responsible for maintaining fiber outside the City of Madison jurisdiction and managing the optical infrastructure. WINMetro, LLC and SupraNet will provide NOC services and information technology services respectively for all conduit and fiber infrastructure while UW-Madison will perform engineering services for conduit, fiber and the optical infrastructure.

6. Please provide the data according to the type of subscriber. Write "0" in the Total column and "N/A" in the Narrative column if your project does not pass or serve a particular subscriber type. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (300 words or less).

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	0	MUFN is not in negotiations with providers receiving new access.
	Providers with signed agreements receiving improved access	2	SupraNet and WINs received improved access.
	Providers with signed agreements receiving access to dark fiber	0	Two (2) commercial providers have not started using fiber (yet) but will in near future.
	Please identify the speed tiers that are available and the number of subscribers for each	0	Dark fiber; users can pick their own baseband speed/signaling type (i.e. ethernet) or light fiber via wave-division multiplexing
Community Anchor Institutions (including Government institutions)	Total subscribers served	91	Below 98 CAIs due to 5 dropped locations (at institution request due to facility closures); also not counting 2 CAIs per NTIA request. Will complete last CAI as part of phase 4 (Bedford St) by 6/7/13.
	Subscribers receiving new access	12	Below 14 CAIs per NTIA request to not count 2 locations as CAIs
	Subscribers receiving improved access	79	Below 84 CAIs due to 5 dropped locations (at institution request due to facility closures); snowstorm and ice in conduits delayed completion of 1 CAI in 1Q2013 as anticipated. Will meet baseline by 6/7/13.
	Please identify the speed tiers that are available and the number or subscribers for each	0	MUFN is a dark fiber project - most subscribers lighting dark fiber at minimum 1Gbps if not 10Gbps.
Residential / Households	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Businesses	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A

7. Please describe any special offerings you may provide (600 words or less).

N/A

8a. Have your network management practices changed over the last quarter? Yes No

8b. If so, please describe the changes (300 words or less).

N/A

9. Community Anchor Institutions:

Using the table below, please provide a list by service area of the community anchor institutions (including Government institutions)

connected to your network as a result of BTOP funds. Figures should be reported for the most recent reporting quarter only (NOT cumulatively). Also indicate whether your organization is currently providing broadband service to the anchor institution. Finally, provide a short narrative description with examples of how institutions are using BTOP-funded infrastructure (300 words or less).

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
UW-SHOW (Survey of Health of WI)	University Ave	CAI	Yes	UW-Madison Medical School will use 1Gbps link for voice, video and data connectivity to the campus and Internet to review health of WI population.
UW-Health Rehabilitation Clinic	University Ave	CAI	Yes	UW-Health will utilize 1Gbps link for voice, video and data services (e.g. Internet, eHealth record systems)

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).
 MUFN will complete phase 4 which includes upgrading connectivity to 1 CAI, installation of 1.8 miles of fiber and entry of phase 4 into our fiber database. We anticipate having 3 broadband wholesaler provider agreements by the end of 2Q2013.

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Planned Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the next reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	100	Anticipate completion by 6/7/13.
2b.	Environmental Assessment	100	Completed in 4Q2012
2c.	Network Design	100	Completed in 4Q2012
2d.	Rights of Way	100	Completed in 4Q2012
2e.	Construction Permits and Other Approvals	100	Completed in 4Q2012
2f.	Site Preparation	100	Completed in 4Q2012
2g.	Equipment Procurement	100	Completed in 4Q2012
2h.	Network Build (all components - owned, leased, IRU, etc.)	100	Anticipate completion by 6/7/13
2i.	Equipment Deployment	100	Completed in 1Q2013
2j.	Network Testing	100	Anticipate completion by 6/7/13
2k.	Other (please specify):	0	N/A

3. Please describe any challenges or issues anticipated during the next quarter that may impact planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

It is possible for a wet spring to hamper our installation activities though we do not anticipate any insurmountable issues and will complete the project in 2Q2013.

Infrastructure Budget Execution Details

Activity Based Expenditures (Infrastructure)

1. Please provide details below on your total budget, cumulative actual expenditures (for the period ending the current quarter), and cumulative anticipated expenditures (for the period ending next quarter) for each line item, including detailed disbursements of both matching funds and federal funds from project inception through end of this quarter (actual) or next quarter (anticipated). Actual and anticipated figures should be reported cumulatively from award inception to the end of the applicable reporting quarter.

Budget for Entire Project				Actuals from Project Inception through End of Current Reporting Period			Anticipated Actuals from Project Inception through End of Next Reporting Period		
Cost Classification	Total Cost (plan)	Matching Funds (plan)	Federal Funds (plan)	Total Cost	Matching Funds	Federal Funds	Total Costs	Matching Funds	Federal Funds
a. Administrative and legal expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Land, structures, right-of-ways, appraisals, etc.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$339,821	\$0	\$339,821	\$295,671	\$0	\$295,671	\$339,821	\$0	\$339,821
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
f. Project inspection fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$10,000	\$0	\$10,000	\$0	\$0	\$0	\$10,000	\$0	\$10,000
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$6,834,082	\$3,753,242	\$3,080,840	\$6,473,070	\$3,461,360	\$3,011,710	\$6,834,082	\$3,753,242	\$3,080,840
j. Equipment	\$1,625,712	\$0	\$1,625,712	\$1,625,712	\$0	\$1,625,712	\$1,625,712	\$0	\$1,625,712
k. Miscellaneous	\$50,000	\$0	\$50,000	\$0	\$0	\$0	\$50,000	\$0	\$50,000
l. SUBTOTAL (add a through k)	\$8,859,615	\$3,753,242	\$5,106,373	\$8,394,453	\$3,461,360	\$4,933,093	\$8,859,615	\$3,753,242	\$5,106,373
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
n. TOTALS (sum of l and m)	\$8,859,615	\$3,753,242	\$5,106,373	\$8,394,453	\$3,461,360	\$4,933,093	\$8,859,615	\$3,753,242	\$5,106,373

2. Program Income: Please provide the program income you listed in your application budget and actuals to date through the end of the reporting period.

a. Application Budget Program Income: \$298,000

b. Program Income to Date: \$71,200