Performance Progress Report					2. Award Or Grant Number 55-50-M09015			
					4. Report Date (MM/DD/YYYY) 10-29-2010			
nmission of W	/isconsi	in				6. Designated Entity On Behalf Of: Wisconsin		
610 North Whitney Way,					 Yes O Quarterly O Semi Annua 		Semi Annual	
						O Anr		 ○ Annual ○ Final
		. ,	Re	eporting Period End Date	e:	9a. If Other, n/a	please	describe:
Mapping			1			1		
Number of Providers Co 105	ntacted			Number of Partial Data Sets Received			Numb Data S	
 10d. If so, describe the discussions to date with each of these providers and the current status Only two providers have expressly refused to participate the Wisconsin program: Heircomm Networks and LiteWire Internet Services Inc. Both have been contacted and have informed the LinkAMERICA Alliance that they do not wish to participate in the program. We will continue to periodically reach out to them, but do not anticipate a change of heart. More often, we simply do not receive a response to repeated requests for data. When this happens we continue to contact the provider via phone and e-mail to assist in any way we can. The numbers in section 10a above reflect participation in Round 2 of the collection process and they indicate that 66 of 105 known providers responded with new data. Of the 39 who did not respond, 20 had supplied data in Round 1 but did not respond in Round 2. We have submitted their Round 1 data again with our Round 2 submission. Further, we used third party data to estimate coverage for two additional providers who did not respond in either Round. As a result, our October 2010 submission included data for 88 providers of the 105 known providers. 10e. If you are collecting data through other means (e.g. data extraction, extrapolation, etc), please describe your progress to date and the relevant activities to be undertaken in the future 								
The LinkAMERICA team uses third party data and estimation techniques to augment provider data. For estimation, we primarily begin with reported middle mile infrastructure points and use common engineering principles to determine potential coverage and speed. This process is repeated in each data submission Round. 10f. Please describe the verification activities you plan to implement The LinkAMERICA team uses common procedures in each of the four LinkAMERICA states. Data verification consists primarily of								
 these separate processes: 1) PDF check maps and other "check data": This information is generated from provider submissions. Maps and other summarized forms of data are shown to the providers after their initial data has been normalized and formatted per NOFA standards. Providers have the opportunity to visually check the data and mapped representations of their coverage/speed, and make corrections if necessary. This process occurs at the beginning of each data Round. 2) Processes are run within the data itself to flag potential errors. In particular, we look for areas where coverage is reported outside of a known Exchange Area Boundaries, or where a single census block is shown as covered without any adjacent covered blocks ("islands"). We also looked for census blocks that are uncovered but surrounded by fully covered blocks ("donut holes"). We investigate these anomalies with providers when possible and correct the data based on their feedback. This process is ongoing with each data Round. 3) Consumer Feedback/Verification: We currently provide a consumer feedback mechanism that allows users of the state map to report errors in coverage or speed information. This mechanism includes the precise longitude and latitude of the report so it can be properly investigated. In the future, we will aggregate user reports into a scoring mechanism that allows other users to see areas where provider data may be in error - based on reports from fellow users. This feature is being designed and a delivery date has not been set. 4) Drive testing using multi-frequency and multi-technology wireless analysis tools is being pilot tested in another state and is 								
	Perform	Performance mission of Wisconsi Way, ode 5 Period 7a. (DD/YYYY) End D 10-30- I Mapping Number of Providers Contacted 105 Number of Providers Contacted 105 ing the required PROV untered challenges with he discussions to date have expressly refuse on contacted and hav odically reach out to ply do not receive a tr and e-mail to assist i and they indicate that und 1 but did not res ind party data to esti- submission included of ting data through other undertaken in the future team uses third part e mile infrastructure eated in each data su the verification activitie team uses third part e the verification activitie and the future, we a may be in error - ba	Performance Progress F amission of Wisconsin Way, ode S Period 7a. End Date: (MM/DD/YYYY) 10-30-2014 Image: Contracted Number of Agreemer Providers Contacted Number of Agreemer Number of Providers Contacted 105 77 ting the required PROVIDER DATA by using the untered challenges with any providers that ind he discussions to date with each of these provhave expressly refused to participate the on contacted and have informed the Link/odically reach out to them, but do not ant ply do not receive a response to repeated and e-mail to assist in any way we can. and they indicate that 66 of 105 known pround 1 but did not respond in Round 2. We with a party data to estimate coverage for two bring batt through other means (e.g. data extra undertaken in the future team uses third party data and estimatio e mile infrastructure points and use commeated in each data submission Round. the verification activities you plan to implement team uses common procedures in each data submission Round. the verification activities you plan to implement team uses common procedures in each data submission Round. the verification activities you plan to implement team uses common procedures in each data and mapped rocess occurs at the beginning of each data in whith the data itself to flag potential er of o looked for census blocks that are uncon nomalies with providers wh	Performance Progress Rep nmission of Wisconsin Way, ode 2 Period 7a. 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We had undertaken in the future team uses third party data and estimation tect e mile infrastructure points and use common of eated in each data submission Round. • the verification activities you plan to implement team uses common procedures in each of the cesses: s and other "check data": This information is hown to the providers after their initial data had by to visually check the data and mapped report rocess occurs at the beginning of each data Fa un within the data itself to flag potential errors. ge Area Boundaries, or where a single censu- in duiting the future, we will aggregate user report and. In the future, we will aggregate user report and her increace and mapped report	Performance Progress Report Immission of Wisconsin Way, ode S Period Ta. End Date: (MM/DD/YYYY) Tb. Reporting Period End Date D/YYYY) End Date: (MM/DD/YYYY) Tb. Reporting Period End Date To: Number of Agreements Providers Contacted Number of Agreements Reached for Data Sharing Number of Partial 105 77 Colored Data Sets Received 105 77 Colored Ga ing the required PROVIDER DATA by using the Excel spreadsheet proviountered challenges with any providers that indicate they may refuse to pathed iscussions to date with each of these providers and the current status have expressly refused to participate the Wisconsin program: He in contacted and have informed the LinkAMERICA Alliance that ti odically reach out to them, but do not anticipate a change of hear ply do not receive a response to repeated requests for data. Whe and e-mail to assist in any way we can. The numbers in section and they indicate that 66 of 105 known providers responded with in und 1 but did not respond in Round 2. We have submitted their Fuirg data to estimate coverage for two additional providers wubmission included data for 88 providers of the 105 known providers wubmission included data for 88 providers of the 105 known providers and use common engineering principle eated in each data submission Round. the verification activities you plan to implement team uses common procedures in each of the four L	Performance Progress Report nmission of Wisconsin Way, Ode 5 Period Ta. End Date: (MM/DD/YYYY) The porting Period End Date: (D)/YYYY) End Date: (MM/DD/YYYY) The porting Period End Date: (D)/YYYY) End Date: (MM/DD/YYYY) The porting Period End Date: (D)/YYYY) End Date: (MM/DD/YYYY) The porting Period End Date: (D)/YYYY) End Date: (MM/DD/YYYY) The porting Period End Date: (D)/YYYY) End Date: (MM/DD/YYYY) The porting Period End Date: (D)/YYYY) Tra Reached for Data Sharing Number of Partial Number of Providers Contacted (D)/YYY) Tra Reached for Data Sharing Data Sets Received Completion (D) Tra Reached for Data Sharing Data Sets Received Completion (D) Tra Reached for Data Sharing Data Sets Received Completion (D) Tra Reached for Data Sharing Data Sets Received Completion (D) Contracted and have informed the LinkAMERICA Alliance that they do not coically reach out to therm, but do not anticipate a change of heart.	Performance Progress Report 2. Award Or 55-50-M090 4. Report De 10-29-2010 6. Designate will way, 8. Final Rep Way, 9. Second Ode 9. Second Second 9. Second Providers Contacted Number of Agreements Number of Contacted Number of Partial Providers Contacted Reached for Data Sharing DDYYYYY) 10-30-2014 Doson-2010 Complete Data Sets 105 77 Providers Contacted Reached for Data Sharing Data Sets Received Complete Data Sets 105 77 66 0 0 ing the required PROVIDER DATA by using the Excel spreadsheet provided by the SBDD grant nutered challenges with any providers that indicate they may refuse to participate in this project? hadiscussions to date with each of these providers and the current status have expressly refused to participate the Wisconsin program: Heircomm Networks an en contacted and have informed the LinkAMERICA Alliance that they do not wish to part odically reach out to them, but do not anticipate a change of heat. ply do not receive a response to repeated requests for data. When this happens we c and e-mail to	Performance Progress Report 2. Award 0r Grant N https://www.initiality.com/i

currently scheduled for use in Wisconsin in years 3-5 of t 10g. Have you initiated verification activities? Yes No 10h. If yes, please describe the status of your activities

As described above, our verification activities are ongoing. We perform all of the above processes in each data collection Round and before submittal of data to NTIA. We continue to analyze the data to address any further identified errors as we update the online maps after each data collection Round.

In the first section above we show that "0" datasets have been "verified." We do this because we are not certain of NTIA's definition of "verified." Because provider, third party, and consumer reported data will always have some degree of error, data can never be 100% verified without a trip to each physical location in the state - which is obviously not within the scope or budget of this project.

Further, since networks expand constantly, information that is verified in one cycle may be incorrect in the next. Instead, we perform as many error checking measures as possible on the provider data in each Round to ensure we display the data as it has been reported it to us - and that as many potential errors as possible have been corrected. As mentioned above, we will also be implementing the consumer feedback mechanism in the months to come to provide an additional perspective on the accuracy of the data. Of course consumers can also be wrong about where service is available, so we will not override provider reports, but will simply offer another source of feedback to map users that will indicate where there may be issues with the data. This will be challenging, however, due to the use of census block geography. We anticipate a certain level of user confusion since coverage may not be offered in sections of small blocks that are shown as covered on the maps due to NOFA guidelines.

10i. If verification activities have not been initiated please provide a projected time line for beginning and completing such activities

The only verification activity that has not been initiated is the drive testing of wireless signals, which is currently scheduled to begin in early 2012.

Staffing

10j. How many jobs have been created or retained as a result of this project?

An analysis of actual hours worked in Q3 shows that the project has resulted in a total of 1.45 FTE jobs created/retained at the Prime and Sub Recipient level.

10k. Is the project currently fully staffed?	Yes	ONo
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10I. If no, please explain how any lack of staffing may impact the project's time line and when the project will be fully staffed

N/A

10m. When fully staffed, how many full-time equivalent (FTE) jobs do you expect to create or retain as a result of this project?

N/A

10n. Staffing Table										
Job Title					FTE	%	Date of Hire			
CEO - Supervisory Role					5		11/01/2009			
Project Director								30		11/01/2009
Project Manager								35		11/01/2009
GIS Director								30		11/01/2009
Internal System Suppo	ort/Architecture							15		11/01/2009
Provider Relations Ma	nager							30		11/01/2009
		Add Row		Remove	e Rov	w				
Sub Contracts										
10o. Subcontracts Table										
Name of Subcontractor	Purpose of Subcontract	t RFP Issued (Y/N)	Contract Executed (Y/N)	ecuted Start Da		End Date	Federal Funds		1	n-Kind Funds
CostQuest Associates Inc./LinkAMERICA Alliance	Project Management/GIS Programming & Planning Services		Y			10/30/2011 1,232,3:		328 0		
					Add Row		Ren		nove Row	
Funding				I						
-	funding has been expend	ded as of the end	l of the last c	quarter? \$	754,84	47 10q.	How muc	h Rema	ins?	\$4,824,874
10r. How much matching	g funds have been expen	ded as of the end	ງ of last quar	rter? \$	168,93	31 10s.	How muc	h Rema	ins?	\$946,959
10t. Budget Worksheet										
Mapping Budget Eleme	Federal nt Funds Granted	Proposed In-Kind		Total Budget				Matching Funds Expended		Total Funds Expended
Personal Salaries	\$537,572	\$321,380	\$85	\$858,952		\$0	\$0			\$0
Personnel Fringe Benefi	its \$156,929	\$127,301	\$28	\$284,230		\$0		\$0		\$0
Travel	\$27,500	\$5,770	\$33	3,270	\$0		\$0			\$0
Equipment	\$57,928	\$9,950	\$67	7,878		\$0	\$0			\$0
Materials / Supplies	\$4,400	\$9,950	\$67	7,878		\$0	\$0			\$0
Subcontracts Total	\$3,679,503	\$0	\$3,6	79,503		\$754,847		\$0		\$754,847
Subcontract #1	\$1,717,684	\$0	:	\$0		\$0		50		\$0
Subcontract #2	\$1,961,819	\$0		\$0		\$0		\$0		\$0
Subcontract #3	\$0	\$0		\$0		\$0		\$0		\$0
Subcontract #4	\$0	\$0	:	\$0		\$0	\$	60		\$0
Subcontract #5	\$0	\$0	\$0			\$0 \$		60		\$0

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$0	\$608,726	\$608,726	\$0	\$168,931	\$168,931
Total Direct Costs	\$4,463,832	\$1,074,129	\$5,537,961	\$754,847	\$0	\$754,847
Total Indirect Costs	\$0	\$41,761	\$41,761	\$0	\$0	\$0
Total Costs	\$4,463,832	\$1,115,890	\$5,579,722	\$754,847	\$168,931	\$923,778
% Of Total	80	20	100	13	3	17

Hardware / Software

10u. Has the project team purchased the software / hardware described in the application?

10v. If yes, please list

Laptop computers and software were purchased for the Project Manager and Provider Relations staff members. Twenty-five percent of the costs were allocated to WI.

6/4/2010: Dell-Mobility Bundle-Provider Relations-XDW8598K9/ Computer Equip < \$5000 / \$42.60/ 25% / \$10.65 6/8/2010: Dell-Latitude E550-Provider Realtions-XDWF3CWW7 / Computer Equip < \$5000 / \$1,315.30 / 25% / \$328.83 7/8/2010: Dell-Latitude, Program Manager XDXWD5P88 / Computer Equip < \$5000 / \$1,411.13/ 25% / \$352.78 Total equipment costs allocated to WI: \$692.26

10w. Please note any software / hardware that has yet to be purchased and explain why it has not been purchased No software or hardware remains to be purchased from the original Year 1-2 budget. The Supplemental (Years 3-5) budget has added approximately \$60,000 for software and hardware to support both the ongoing data collection/mapping activities and the statewide address file development project. Address File project equipment will be purchased in Year 2 and the data collection/ mapping equipment in Years 4 & 5.

10x. Has the project team purchased or used any data sets? Oves ONo

10y. If yes, please list

American Roamer, Media Prints, and ExchangeInfo

10z. Are there any additional project milestones or information that has not been included? • Yes No

10aa. If yes, please list

The first "beta" version of the Wisconsin Broadband Map was launched to the general public in August 2010 after an internal and provider review period. This is a major project milestone.

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing

As with all LinkAMERICA states, the largest challenge is collecting complete and accurate data from providers - and identifying when that data may be incomplete or inaccurate. Inaccuracies are identified using the verification techniques described. Incomplete datasets are handled on a case by case basis.

In the second round of data collection, we generated a customized instruction sheet and "check map" for each provider. These sheets specifically identified the type of information that was missing and explained how such information should be reported in Round 2. This was a very time consuming process, but given the diverse nature of the providers submissions it was necessary to treat each submission on a case by case basis.

Wisconsin providers in particular have also objected to the use of street segments to depict coverage. Most smaller providers do not have the ability to identify street segments in large census blocks as required in the NOFA. As a result, we typically ask for a map of their service territory and use GIS overlays to identify street segments that fall within those boundaries. The nature of street segments themselves means this is not always a perfect fit. Even after properly identifying street segments, providers argue that showing only the street segment itself (with a 100m buffer on each side) severely under represents where they could (and would) offer coverage for consumers who request it. More detail is given in the next section.

As described in other reports, we also had difficulty gathering Maximum Advertised Speed at the Census Block level. Several large providers flatly refused to give this information, citing the fact that it is "not listed in the NOFA". Others remain confused about the definition of "Advertised" and seem to be providing a single maximum speed that is literally advertised in the newspaper or on TV for the entire market area - instead of offering a CB by CB analysis of what maximum speeds are possible.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project In Wisconsin in particular, the LinkAMERICA Alliance is receiving feedback regarding the depiction of coverage in large census blocks. Specifically, several RLECs have objected to the combination of fully shaded representations of coverage in small blocks and shaded street segments in large blocks.

First, they argue that the street segments do not show the reach of their service. We currently buffer to 100m on each side of the segments, but many RLECs state that they will offer service much farther from the edge of these streets. The precise distance they will go is dependent upon many factors, so there is no common buffer distance that works for all providers in all locations. In their eyes, unless we shade their entire coverage area (not just the streets) we are telling consumers that access is not available, when that may not be the case.

In a related argument, they also object to the use of fully shaded areas (via shapefiles) to depict wireless coverage. Because the wireless carriers are not shown by street segment, it often appears that their coverage extends into areas not covered by the wireline providers (distances greater than 100m from the road centerlines). The wireline providers consider this unfair, since they would at least like the option of deciding whether they can extend service to those customers or not. To mitigate this issue, we have changed the messaging in the bubble that shows the list of providers for an area and still include wireline providers in the list in other areas of a

large block where they cover at least one street segment. We are implementing this change in November. NTIA may wish to monitor this issue as the national map is designed.

11. Broadband Planning

11a. Please describe progress made against all goals, objectives, and milestones detailed in the approved Project Plan. Be sure to include a description of each major activity / milestone that you plan to complete and your current status

In Q3 the final version of the initial stakeholder interview summary report was published to both the PSCW and the general public via the LinkWisconsin website. Other activities and milestones include the following:

1) Preparation of a detailed regional planning team "recruitment tool" including a spreadsheet with key regional and subject area contacts and criteria for recruiting regional planning team members.

2) Development of several background documents to help inform in-state planning partners and potential regional planning team members regarding the purpose and objectives for the LinkWISCONSIN planning process.

3) Creation of a LinkWISCONSIN broadband planning dashboard with relevant planning data and structured webforms to guide content development for the creation of regional broadband investment plans.

4) The addition of an in-state staff person to the LinkAMERICA team to support the planning process with a stronger local presence.5) Development of a final Planning Project timeline and tasklist in conjunction with key PSCW staff members.

6) Attendance at the statewide meeting of the Executive Directors of the Association of Wisconsin Regional Planning Councils to introduce LinkWISCONSIN and invite their involvement.

7) Finalization of geographic boundaries for Wisconsin's planning regions

8) Developed multiple interactive video segments to outline key findings from initial interviews and to serve as a platform for the collection of additional consumer and stakeholder data.

11b. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing

No major obstacles have been identified that will impact the team's ability to meet project goals/objectives.

11c. Does the Project Team anticipate any changes to the project plan for Broadband Planning? (Yes No

11d. If yes, please describe these anticipated changes. Please note that NTIA will need to approve changes to the Project Plan before they can be implemented

N/A

Funding

11e. How much Federal funding has been expended as of the end of the last quarter? \$0

11g. How much matching funds have been expended as of the end of last quarter?

11f. How much Remains?	
------------------------	--

11h. How much Remains? \$0

\$0

11i. Planning Worksheet

Th. Flanning Worksheet						
Planning Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Personal Salaries	\$0	\$0	\$0	\$0	\$0	\$0
Personnel Fringe Benefits	\$0	\$0	\$0	\$0	\$0	\$0
Travel	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Materials / Supplies	\$0	\$0	\$0	\$0	\$0	\$0
Subcontracts Total	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #1	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #2	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #3	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #4	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #5	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0	\$0	\$0
Total Direct Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0	\$0	\$0	\$0
% Of Total	0	0	0	0	0	0

\$0

Additional Planning Information

11j. Are there any additional project milestones or information that has not been included?

No further information.

11k. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the Project Team is employing

No challenges have been encountered that will hinder our ability to complete the assigned tasks and achieve program goals.

11I. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project

No further information.

12. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purpose set forth in the award documents.					
12a. Typed or Printed Name and Title of Authorized Certifying Official	12c. Telephone (area code, number, and extension)				
Sarah Klein	608-266-3587				
Division Administrator	12d. Email Address sarah.klein@psc.state.wi.us				
12b. Signature of Authorized Certifying Official	12e. Date Report Submitted (Month, Day, Year)				
Submitted Electronically	12-08-2010				

Performance Progress Report OMB Approval Number: 0660-0034 Expiration Date: 08/31/2010