							2. Award Or Grant Number 46-50-M09053			
Performance Progress Report							4. Report Date (MM/DD/YYYY) 06-25-2012			
					-	6. Designated Entity On Behalf Of: State of SD/BIT				
3. Street Address 700 Governor's Drive,						8. Final Re	8. Final Report? 9. Report Freque Yes Quarterly			
5. City, State, Zip C Pierre, SD 57501-							 No 		 ○ Semi Annual ○ Annual ○ Final 	
7. Project / Grant Start Date: (MM 12-20-2009		7a. End [12-19	Date: (MM/DD/YYYY) -2014		b. eporting Period End Date: 3-30-2012	:	9a. If Other N/A	9a. If Other, please describe:		
10. Broadband	Mapping	1	10a. Provider Table							
Number of Providers Identified 49	Number of Providers Coi 49		Number of Agreements Reached for Data Sha 36		Number of Partial Data Sets Received 0	Numbe Compl 47	er of ete Data Sets			
 10b. Are you submitting the required PROVIDER DATA by using the Excel spreadsheet provided by the SBDD grants office? Yes No 10c. Have you encountered challenges with any providers that indicate they may refuse to participate in this project? Yes No 10d. If so, describe the discussions to date with each of these providers and the current status N/A 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 										
10f. Please describe the verification activities you plan to implement Verification activities in progress. See 10h.										
 10g. Have you initiated verification activities? (Yes) No 10h. If yes, please describe the status of your activities 1. Collecting data from our hosted speedtest.sd.gov site, FCC Consumer Broadband Test, and several individuals performing "drive-testing", as well as data from licensed data sets from Ookla for Android and iOS devices. 2. Driven over ~48,500 miles testing cellular signal and speeds, collecting over 24,000 cellular speed tests and 1.85 million cellular signal tests. 3. Gathered over 19,750 Speed tests from our portal at SpeedTest.sd.gov. 4. We have a combined total of over 148,600 speed tests from wireless /cellular and wireline services. 5. Continue to utilize internal government resources for data collection and verification (Statewide I/T newslettter, state I/T organization, others to come.) 6. Sent a press release announcing the speedtest.sd.gov site. 7. Collected 415 WiFi hot spots from the public and will continue to improve. 8. Researched and contacted FCC Form 477 filers for inclusion in Data Collection activities, and will continue to do so in new submissions. 9. Completed migration of our provider verification portal to South Dakota data center and servers. 10. We are re-evaluating the success of using our K12 and Higher Education contacts to determine whether using them has been effective for our speed test efforts. 11. Began utilizing wireless propagation modeling for mobile wireless verification. Continuing to do so for fixed wireless providers. 										

10i. If verification activiti	ies have not been initiated	please provide	a projected	time line for begi	inning and comp	leting such	activitie	S	
Verification activities h	ave begun, and continu	e with each s	ubmission.						
Staffing									
10j. How many jobs hav	ve been created or retained	l as a result of t	his project?						
5.32 FTE									
	ntly fully staffed?		project's time	e line and when t	the project will be	e fully staff	ed		
10m. When fully staffed	, how many full-time equiva	alent (FTE) jobs	s do you exp	ect to create or r	retain as a result	of this proj	ject?		
3 FTE									
10n. Staffing Table									
		Job Title					FTE %	%	Date of Hire
Broadband Capacity	Manager						100		12/20/2009
Technology Planning	Technology Planning Assistant 100 06/01/2011								
Network Architect 45 12/20/2009									
Project Manager	Project Manager 22 12/20/2009								
Technology Planning Manager 100 12/20/2009									
Interns 97 06/01/2011									
Broadband Administra	Broadband Administration 61 12/20/2009								
Finance							7		12/20/2009
Add Row Remove Row									
Sub Contracts 100. Subcontracts Table	2		-			1			
Name of Subcontractor	Purpose of Subcontract	RFP Issued (Y/N)	Contract Executed (Y/N)	Start Date	End Date	Federal F	unds	In-	Kind Funds
Broadmap	GIS Mapping	Y	Y	12/01/2010	12/28/2014	1,326,407	0		
Dakota State University	ota State University Broadband Planning N Y 09/20/2010 12/28/2014 446,815 0								
SD Public Broadcasting	Public Broadcasting Broadband Planning N Y 01/03/2011 12/28/2014 101,885 0								
Bureau of Information & Broadband Planning N N 01/01/2011 12/28/2014 115,000 0									
Add Row Remove Row Funding									
-	funding has been expende	ed as of the end	d of the last of	quarter? \$1,888	8,505 10q.	How much	Remain	ıs?	\$3,840,910
10r. How much matchin 10t. Budget Worksheet	g funds have been expend	ed as of the end	d of last qua	rter? \$1,24	5,867 10s.	How much	Remain	is?	\$186,474

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Personal Salaries	\$1,740,143	\$450,000	\$2,190,143	\$404,321	\$307,143	\$711,464
Personnel Fringe Benefits	\$565,231	\$150,000	\$715,231	\$67,190	\$79,350	\$146,540
Travel	\$143,254	\$0	\$143,254	\$30,516	\$0	\$30,516
Equipment	\$790,680	\$0	\$790,680	\$113,084	\$0	\$113,084
Materials / Supplies	\$5,000	\$0	\$5,000	\$498	\$0	\$498
Subcontracts Total	\$1,990,107	\$0	\$1,990,107	\$1,146,891	\$0	\$1,146,891
Subcontract #1	\$1,326,407	\$0	\$1,326,407	\$966,787	\$0	\$966,787
Subcontract #2	\$446,815	\$0	\$446,815	\$13,388	\$0	\$13,388
Subcontract #3	\$101,885	\$0	\$101,885	\$51,716	\$0	\$51,716
Subcontract #4	\$115,000	\$0	\$115,000	\$115,000	\$0	\$115,000
Subcontract #5	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$495,000	\$832,341	\$1,327,341	\$126,005	\$859,374	\$985,379
Total Direct Costs	\$5,729,415	\$1,432,341	\$7,161,756	\$1,888,505	\$1,245,867	\$3,134,372
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$5,729,415	\$1,432,341	\$7,161,756	\$1,888,505	\$1,245,867	\$3,134,372
% Of Total	80	20	100	60	40	100

Hardware / Software

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

10v. If yes, please list

2nd Quarter 2012: \$10,040.00 - EDX Wireless - Wireless Propagation Software \$400.00 - Digital River - eSurveysPro.com - 3/21/12 - 3/21/13 \$1,950.00 - QOS Solutions - QMapper Annual Support - 6/15/12 - 6/14/13 \$2,591.16 - Century Link (QWest) - 911 ADE Database Extract (Master Street Address Guide (MSAG)) 1st Quarter 2012:

\$1,528 - Hewlett Packard - B85609 Notebook computer
\$220.50 - Software House - Acrobat Pro
\$4,840 - Syntech - 1,000 2GB Flash Drives

4th Quarter 2011: \$495 - Ookla - Custom Speed Test License \$113.54 - 2 USB Drives \$504.00 - 3 CONTRIBUTE CS5 WIN FULL LICENSE

3rd Quarter 2011: \$1,026.71- I-pad and accessories-AT&T- 8/12/11

2nd Quarter 2011: \$8,760 - (10) Qmapper software \$759 - printer \$137.52 - (2) USB flash drives

1st Quarter 2011: \$43 kevboard \$318-desktop MS Office software \$1,495-Ookla software \$69 - USB flash drive \$840 - (2) monitors 4th Quarter 2010: \$11,895-visual studio 2010 application developer software \$2,475-laptop computer \$109-blackberry \$69-keyboard & mouse 2nd Quarter 2010: \$21.959-virtualization software \$23,152-servers to host web sites & mapping data \$6,027-server operating systems 1st Quarter 2010: \$20,011-ArcGIS license 10w. Please note any software / hardware that has yet to be purchased and explain why it has not been purchased Additional upcoming purchases may include a couple of iPads (\$1,500), iPhone (\$300), replacement drive testing phones (\$2,500) and accessories (\$200) and GPS units (\$4,000) for the address file project. 10x. Has the project team purchased or used any data sets? 10y. If yes, please list We have purchased the Master Street Address Guide (MSAG) from CenturyLink (\$2,591), per suggestion from a Broadband Advisory Team member. This still won't cover all counties but it is a text file of addresses of individuals having phones in their homes. The data is not as good as anticipated, yet we will use because we want to compare our data to CenturyLink's to help the 911 system. Data sets from Pitney Bowes, American Roamer, ComSearch, MediaPrints, and infoUSA were purchased for Year 1 but were not renewed for Year 2. We are continuing to evaluate another source for addressing assistance and verification. We have purchased a 3rd party data set from Ookla - a 12 month subscription to Speedtest.net Application Mobile Results-All Android/ iOS. Cellular/Wifi Results - South Dakota. We also licensed 3 months of historical data, same data set. The cost is \$15.040. This data is used in wireless verification. In an effort to validate counties that didn't provide their data - we have obtained a data set from the South Dakota Secretary of State, at no cost, of the physical addresses of 500,000 SD registered voters. 10z. Are there any additional project milestones or information that has not been included? • Yes ONo 10aa. If yes, please list April Mapping Data Collection Preparation, Submission & Display Notify Providers (complete) Gather Data (complete) Process & Ingest Data (complete) Provider Verification (complete) Submission (complete) Mapping display update (complete) Address Files 33 counties have submitted data Continue work with 911 Governance Board regarding county contacts and their participation Built web and mobile apps for address validation being used by 2 summer interns Continue to normalize the dataset of SD registered voters from the SD Secretary of State

*Broadband Advisory Team (BAT) BAT quarterly meeting held in April - updated group on all facets of the program Timely updates sent to members via e-mail BAT members providing contacts for Technology Assessments, ideas and contacts for additional videos Three BAT members providing Public Service Announcements on various cable networks - slowed till after elections BAT members continually provide relevant information to fellow team members
*Technology Planning (formally Technical Assistance) / Computer Ownership Program Performed 9 Technology Assessments across the state to a wide variety of CAI's User education and best practice recommendations have been valuable and well received Statewide press coverage and presentations have been continual and very helpful to spread the word and explain the program Governmental and organizational contacts used to promote the program Added content on grant application to the state broadband website SDBI Grant Application opened in May. Seventeen grant applications were received and were reviewed

*Community Anchor Institutions (CAI)

Continue to reach out to CAI's with CEO's, Directors and leaders of organizations within CAI classification Added multi-site CAI's such as County Extension offices to contact list

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing *We continue to struggle with effective methods of comparing and analyzing data. We have employed the efforts of the state demographer for additional perspectives on how to best display and compare the data. We have also contacted a Sociology PHD at the South Dakota School of Mines and Technology for similar input.

*Struggling to develop more detailed wireless signal radiation maps for internal use that deliver highly localized accuracy. Finding an accepted, repeatable model to develop reliable, locally accurate signal strength maps has been a challenge. We evaluated and purchased EDX software. Our contractor, BroadMap, has created a propagation model for the SW portion of South Dakota to generate useful predictive radio frequency models for the verification of mobile broadband coverage and power.

*Counties have not participated to the extent we expected for submitting address data. We are going to purchase another data set in addition to our own field verification efforts.

*Continue working on a budget revision proposal for the NTIA. Lessons learned and experiences gained indicate we need to make financial adjustments to improve our success.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project Data collection with our providers was very successful due to the great participation from the telecommunications providers in supplying their broadband data. We have continued our correspondence with providers since the last submission by way of providing them with PDF files containing maps of their coverage areas (to help in their verification).

Verification efforts made an enormous improvement over previous submissions as we continue to build upon lessons learned. We were able to extensively scrutinize the accuracy and relevancy of the data collected from the providers as well as speed tests performed in workplaces, homes and on the highways across the state. Several verification analysis processes were used. We have documented these processes and procedures for our future use.

The SBI Grant Application has been a big focus with the first round opening in May. Thus, the number of technology assessments was scaled back somewhat to create documentation, processes and procedures for the first round. We received 17 completed applications this first round - great response. Non-respondents cited lack of time or resources to complete, but most plan to apply the next grant period.

CAIs across the state are continuing to register for technical assessments. Assessments have taken place in schools, libraries, city offices, YMCAs and non-profits in large and small communities.

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

Statewide Broadband Portal - broadband.sd.gov updates:

Interactive map and all static maps updated using 12/31/11 data (5th data submission)

Advertised speed vs. actual speed test results maps are in progress and prototype has been created with a data subset Sent high resolution coverage maps to each provider to better depict their coverage areas

Continue to make the website more interactive and engaging (broadband stories, WiFi hot spots, Social Media)

Generated a propagation map of a state park - used at SBI Grantee Workshop

Adding a timestamp and notification of when individuals fill out an Unserved Area form on the website

Online Mapping Provider Portal has been moved to SD data center for hosting on state infrastructure. The Provider Portal was previously hosted by our mapping partner BroadMap.

Outreach:

Continue to meet with new groups, trade associations, organizations & conferences - some include SD Department of Agriculture, Governors Office of Economic Development State Conference, SD Municipal League, SD Technology in Education (TIE) Conference, Horizon Healthcare, Inc., and others

Promotional videos - uploaded to iPads for use at tradeshows and conferences

Other videos/stories in various stages of completion include topics of healthcare, economic development, agriculture and more Monitor broadband stories including other states' social media accounts and re-tweet/Facebook meaningful data

Continue to receive consumer feedback and promote awareness

Online agriculture, residential and business surveys continue

Agriculture survey - data is being analyzed, working on county numbers and reporting

Press releases continue to generate statewide coverage on television, radio and in newspapers

Peer discussions with other states produced a day long meeting (setup by NTIA) with SBI planners to learn from each other - planned, and provided presentations

Broadband report is progressing and a draft is being reviewed internally

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

N/A

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 fur	D 11f.	? \$0							
11g. How much matching f	unds have been exper	0 11h.	11h. How much Remains?						
11i. Planning Worksheet									
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			

11i. Planning Worksheet						
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
Additional Plannin	-			1	L	I
11j. Are there any additiona	al project milestones of	r information that has	s not been included	1?		
N/A						
11k. Please describe any c	hallenge or obstacle th	nat you have encoun	tered and detail the	e mitigation strategies	s the Project Team is	s employing
N/A						
11I. Please provide any oth We recently worked throu easy and productive. We adjustments to improve t	ugh award documer e have been trying to	ntation and an agree o get a budget rev	eement for our C ision approved s	ommunity Anchor ince February 201	Institutions. That p	
Note for item 10t: Q1 rep			-		es The difference	of \$3 028 was
eported inappropriately i						01 \$0,020 Mad
Proposed In-kind Budget submitted which should r					udget amendment	has been
Matching Funds Expende tems is now \$27,033 ove proposed in-kind budget	er the approved prop	posed in-kind budg				
Federal Funds expended # 3 line item. We have s discrepancy.						

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)				
Deb Larson	605-677-6411				
	12d. Email Address				
	Deb.Larson@state.sd.us				
12b. Signature of Authorized Certifying Official	12e. Date Report Submitted (Month, Day, Year)				
Submitted Electronically	08-22-2012				