U.S. DEPARTMENT OF COMMERCE	2. Award Or Grant Number
Performance Progress Report	22-50-M09030
	4. Report Date (MM/DD/YYYY)
	04-25-2011

1. Recipient Name	6. Designated Entity On Behalf Of:
State of Louisiana Division of Administration	State of Louisiana

3. Street Address	8. Final Report?	9. Report Frequency
1201 North 3rd Street, Suite 2-130,	○ Yes ● No	● Quarterly ○ Semi Annual ○ Annual ○ Final

5. City, State, Zip Code		
Baton Rouge, LA 70802		

7. Project / Grant Period Start Date: (MM/DD/YYYY)	7a. End Date: (MM/DD/YYYY)	7b. Reporting Period End Date:	9a. If Other, please describe:
11-01-2009	10-31-2014	03-31-2011	n/a

10. Broadband Mapping   10a. Provider Table

Number of Providers Identified	Number of Providers Contacted	Number of Agreements Reached for Data Sharing	Number of Partial Data Sets Received	Number of Complete Data Sets	Number of Data Sets Verified
0	0	0	0	0	0

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

The following two (2) providers refused to participate: Buford Media Group and Bluebird Wireless Broadband Services, LLC.

The following sixteen (16) providers have yet to provide data: 360networks; Acadania Wireless; Bayou Internet Inc.; Catcomm Internet Services, LLC; Cellular South; Conterra Broadband Services D/B/A DETEL; ERF Wireless, Inc.; Hughes Network Systems; LLC; Hunt Telecom; Integrated Data Systems; Interactive E-Solutions A/K/A Broadband IP; Maximum Access, LLC; Media3; Nexus Systems, Inc.; PC One Cable LLC; Skycom1.

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 following additional verification datasets are being developed/collected:

Development of Initial Conservative Estimate of Broadband Service: Data is extracted from internal and commercial databases defining geographic service areas of telephone and cable companies and locations of central office (CO) switches and areas upgraded with fiber. The geographic areas are overlaid with Census demographic data on housing unit counts and density.

Wireless Market Intelligence Data: Commercially available dataset used as an independent source to verify information submitted by Providers of wireless broadband service. This dataset is used as a validation source for provider service area coverage.

Targeted Online Surveys: Questionnaires (e-mail/web based) have been sent directly to businesses and households, including over-sampling in rural area and those where the above conservative estimate indicates are "unserved" and "underserved" areas.

Online Public Survey and Speed Test: A Broadband Mapping Public Survey Site is deployed. Site visitors are requested to provide data on broadband availability, technology, service type (e.g., speed tier) service provider name; monthly prices paid and measured downstream and upstream speeds.

Field Data Acquisition: Broadband technicians visited a sampling of census block locations to gather broadband data to be used for validation.

10f. Please describe the verification activities you plan to implement

Development of a System for Evaluation and Assessment Statistics (SEAS) has been completed. SEAS automates the validation processing that helps conduct the data submittal to the NTIA which is described in section 10h below. The software does an auto-join and query to the validation data against the Provider data. Identified areas of discrepancy are flagged for reporting the confidence level of the data per provider at the census block and road segment level. These unit confidence levels are into into a statistical model to develop confidence levels for each of the broadband service providers.

Fixed Wireless coverage has been evaluated using contour calculation methods, with key inputs being transmitter location and, where available, data on spectrum power levels and other relevant transmission factors provided by carriers and/or supplemented by data available from public web sites and other sources. Data is then input to a contour calculation tool to provide estimates of fixed wireless broadband coverage areas. This dataset is used as a source to determine gaps in provider wireless service area coverage.

10g. Have you initiated verification activities? ● Yes ○ No

10h. If yes, please describe the status of your activities

Stakeholder Validation: Maps of completed Provider service areas and data were furnished to the Providers for confirmation of the processed/aggregated information. Feedback received in time for the October update was integrated into each Provider's dataset for the April 1 data submittal to the NTIA. Subsequent feedback will be integrated for future updates.

Service Area Validation Data: The SNG wireline service area data is tabular and contains a separate record for each provider/technology of transmission combination with an associated census block or TIGER road segment, depending on the whether the size of the census block area (=/< or > 2 sq. mi.). This data was exported into an ArcGIS data format. The American Roamer wireless service area data is already in and ArcGIS data format.

Online Survey and Field Validation Data: The updated Public and Targeted Business/Household survey and field data were also collected in tabular database format, and represent a specific lat/long spatial location for each record.

Validation Reporting: The validation results recorded in the GIS discrepancy layers created in the previous process were entered into a validation results spreadsheet, along with the total number Provider records, and validation records for that Provider.

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

As noted in 10f above the development of SEAS software to automate and enhance the validation processes was completed and the calculation of the confidence level and statistical modeling of the data per provider at the census block and road segment level is complete. Evaluation of reported fixed wireless coverage utilizing contour calculation tools, as described in 10f above, has also been implemented. A Technical document "SBDD Broadband Mapping Data Development" was also developed to address the entire process and this document includes details on the Validation procedures and was submitted to NTIA as part of the April 1 delivery.

Maps of completed Provider service areas and data will continue to be furnished back to the Providers for confirmation of the processed/aggregated information and feedback integrated into each Provider's dataset. In addition, aggregated broadband coverage maps will be provided to the regional Areas Development Districts for review and feedback for their jurisdictions. This stakeholder validation will be conducted for subsequent semi-annual data updates.

Staffing

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

1.0

10k. Is the project currently fully staffed?   ○ Yes   ● No

10l. If no, please explain how any lack of staffing may impact the project's time line and when the project will be fully staffed

With the extension of the grant program through the supplemental and amended grant in Sept. 2010, we have yet launch all of the programs included in our total grant. Consequently, a number of jobs are currently planned for, but not yet filled, to support these additional projects.

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

14.12

10n. Staffing Table

Job Title	FTE %	Date of Hire
State Broadband Grant Administrator	100	01/03/2011

Add Row	Remove Row

Sub Contracts

10o. Subcontracts Table

Name of Subcontractor	Purpose of Subcontract	RFP Issued (Y/N)	Contract Executed (Y/N)	Start Date	End Date	Federal Funds	In-Kind Funds
Michael Baker Jr., Inc.	Broadband Mapping Support Services	Y	Y	10/01/2009	09/30/2012	926,900	130,000
LA Geographic Information Center (LAGIC)	Broadband Mapping Data Validation and Provider Outreach	N	Y	03/01/2010	02/28/2013	182,880	9,705
LA Geographic Information Center (LAGIC)	Broadband Planning Support	N	Y	03/01/2010	02/28/2013	498,648	125,292
TBD	Supplemental Grant Program Support	N	N			4,155,053	766,952

Add Row	Remove Row

Funding

10p. How much Federal funding has been expended as of the end of the last quarter? $892,066   10q. How much Remains? $5,757,613

10r. How much matching funds have been expended as of the end of last quarter? $287,518   10s. How much Remains? $1,473,317

10t. Budget Worksheet

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Personal Salaries	$627,456	$104,500	$731,956	$18,680	$54,270	$72,950
Personnel Fringe Benefits	$178,742	$31,180	$209,922	$6,164	$16,482	$22,646
Travel	$0	$28,000	$28,000	$0	$0	$0
Equipment	$0	$13,200	$13,200	$0	$11,600	$11,600
Materials / Supplies	$80,000	$536,106	$616,106	$8,520	$77,005	$85,525
Subcontracts Total	$5,763,481	$1,011,949	$6,775,430	$858,702	$127,039	$985,741
Subcontract #1	$926,900	$110,000	$1,036,900	$692,538	$85,498	$778,036
Subcontract #2	$182,880	$9,705	$192,585	$105,600	$26,400	$132,000
Subcontract #3	$498,648	$125,292	$623,940	$60,564	$15,141	$75,705
Subcontract #4	$4,155,053	$766,952	$4,922,005	$0	$0	$0
Subcontract #5	$0	$0	$0	$0	$0	$0
Construction	$0	$0	$0	$0	$0	$0
Other	$0	$35,900	$35,900	$0	$1,122	$1,122
Total Direct Costs	$6,649,679	$1,760,835	$8,410,514	$892,066	$287,518	$1,179,584
Total Indirect Costs	$0	$0	$0	$0	$0	$0
Total Costs	$6,649,679	$1,760,835	$8,410,514	$892,066	$287,518	$1,179,584
% Of Total	79	21	100	76	24	100

Hardware / Software

10u. Has the project team purchased the software / hardware described in the application?   ○ Yes   ● No

10v. If yes, please list

n/a

10w. Please note any software / hardware that has yet to be purchased and explain why it has not been purchased

n/a

10x. Has the project team purchased or used any data sets?   ● Yes   ○ No

10y. If yes, please list

The InfoUSA data set of email addresses and a second data set of internet connectivity data points have been purchased to support data validation. These data sets will be used for validation of the broadband Provider data. The connectivity data set includes connectivity and speed data down to the address level. It provides provider name, type of technology, and relevant speeds at the address level.

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

10aa. If yes, please list

n/a

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

Several providers have sent road segment tables which do not contain any spatial ID (TLID). The challenge is to spatially locate these roads to produce a verification map for the providers.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project

n/a

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

• We completed two online surveys of local government institutions regarding the status of broadband service in their community. This data has been mapped at the parish (county) level to provide a visualization of under-served areas. It also helps us identify the type of broadband service being provided to these anchor institutions. We have mapped additional anchor institutions including major health care facilities, public safety (fire, police, EMS), government buildings and communication facilities. The data shows, that even in some of our rural towns, community anchor institutions often have more than one Broadband provider to choose from.

• We are analyzing the results of earlier surveys of the following statewide groups:
o Louisiana Industrial Development Executives Association (LIDEA)
o Louisiana Geographic Information Systems Council

• We have received approval by the Broadband Advisory Council Chair to meet with local public safety institutions (primarily Communication Districts) within the primary study area to collect address information
o Franklin Parish
o Richland Parish
o Madison Parish
o West Carroll Parish

• We have made presentations to the following broadband stakeholders
o Louisiana Chapter of the National Emergency Numbering Association
o Louisiana Geographic Information Systems Council in Baton Rouge, LA.
o Louisiana Assessors Association
o Louisiana Broadband Advisory Council in Baton Rouge, La.

• We have partnered with Delta Community College in Monroe, Louisiana for a 2-day Global Challenges conference, scheduled for mid-April. The conference will focus on educational initiatives and broadband adoption as methods to break the cycle of poverty and lack of economic development in the Delta parishes. The conference organizers have spent many hours scheduling high impact speakers and developing an invitation list that includes regional mayors, police jurors, chambers of commerce, educational and anchor institution administrators.

11b. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing
• Respondents who are unfamiliar with internet speed testing often do not use the speed test link contained in the survey. Education has become a larger part of the project then initially thought as many folks are unaware of the benefits of broadband technology
• We had to become more aware of our use of Broadband jargon, which was not well understood by the public. Even terms like "broadband" had to be qualified with the additional phrase "high speed internet".

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   11f. How much Remains? $0

11g. How much matching funds have been expended as of the end of last quarter? $0   11h. How much Remains? $0

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
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 Planning Information

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

We will be providing grant writing training for parishes in the study area that would like to take advantage of the Louisiana Broadband Grant program.

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

n/a

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

n/a

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 Neal Underwood Ass't Director Statewide Techn	12c. Telephone (area code, number, and extension) (225) 219-4025
	12d. Email Address neal.underwood@la.gov
12b. Signature of Authorized Certifying Official Submitted Electronically	12e. Date Report Submitted (Month, Day, Year) 06-03-2011