

U.S. DEPARTMENT OF COMMERCE

Performance Progress Report

2. Award Or Grant Number

22-50-M09030

4. Report Date (MM/DD/YYYY)

01-25-2011

1. Recipient Name

State of Louisiana Division of Administration

6. Designated Entity On Behalf Of:

State of Louisiana

3. Street Address

1201 North 3rd Street, Suite 2-130,

8. Final Report?

Yes

No

9. Report Frequency

Quarterly

Semi Annual

Annual

Final

5. City, State, Zip Code

Baton Rouge, LA 70802

7. Project / Grant Period

Start Date: (MM/DD/YYYY)

11-01-2009

7a.

End Date: (MM/DD/YYYY)

10-31-2014

7b.

Reporting Period End Date:

12-31-2010

9a. If Other, please describe:

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 three (3) providers refused to participate: Buford Media Group, Network USA, LLC., 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.

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

- Development of a System for Evaluation and Assessment Statistics (SEAS) is complete. SEAS will automate the validation processing that will be conducted for the next data submittal to the NTIA which is described in section 10h below. The software will auto-join and query the validation data against the Provider data. Identified areas of discrepancy will be flagged for reporting the confidence level of the data per provider at the census block and road segment level. The plan is to then input these unit confidence levels into a statistical model to develop confidence levels for each of the broadband service providers. These confidence levels will be added to the state broadband web map after the April 2011 data submission to NTIA.
- Fixed Wireless coverage will be 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 will then be 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 the each Provider's dataset for the October 1 data submittal to the NTIA. Subsequent feedback has been integrated into the state broadband web map.
- 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 described in the previous section, manual verification activities were conducted for the October 1 data submittal to the NTIA. In 10f above, it is noted that development of SEAS software to automate and enhance those validation processes, calculate 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, are also being 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 Oct. 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?

22

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?

13.12 FTE

10n. Staffing Table

Job Title	FTE %	Date of Hire
GIS Technician (Baker)	67	01/15/2010
Data Analyst / Systems Administrator (LAGIC)	100	
GIS Training Coordinator (LAGIC)	100	
3 - GIS Specialists (Baker)	70	
3 - GIS Technicians (Baker)	70	
Manager (LAGIC)	50	
State Broadband Director	100	01/10/2011
State Broadband Analyst	100	10/03/2011
Broadband Coordinator (LSU Ag Center)	100	04/04/2011

5 - Extension Coordinators (LSU Ag Center)	15
4 - Student Workers	50

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

Funding

10p. How much Federal funding has been expended as of the end of the last quarter? \$701,058 10q. How much Remains? \$5,948,621
 10r. How much matching funds have been expended as of the end of last quarter? \$210,049 10s. How much Remains? \$1,550,786

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	\$0	\$47,574	\$47,574
Personnel Fringe Benefits	\$178,742	\$31,180	\$209,922	\$0	\$14,334	\$14,334
Travel	\$0	\$28,000	\$28,000	\$0	\$0	\$0
Equipment	\$0	\$13,200	\$13,200	\$0	\$10,000	\$10,000
Materials / Supplies	\$80,000	\$536,106	\$616,106	\$8,520	\$52,643	\$61,163
Subcontracts Total	\$5,763,481	\$1,011,949	\$6,775,430	\$692,538	\$85,498	\$778,036
Subcontract #1	\$926,900	\$110,000	\$1,036,900	\$692,538	\$85,498	\$778,036
Subcontract #2	\$182,880	\$9,705	\$192,585	\$0	\$0	\$0
Subcontract #3	\$498,648	\$125,292	\$623,940	\$0	\$0	\$0
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	\$0	\$0
Total Direct Costs	\$6,649,679	\$1,760,835	\$8,410,514	\$701,058	\$210,049	\$911,107
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$6,649,679	\$1,760,835	\$8,410,514	\$701,058	\$210,049	\$911,107
% Of Total	79	21	100	77	23	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

- As noted in the last Quarterly Report, LAGIC completed two online surveys of local government institutions regarding the status of broadband service in their community. We have completed surveys of 64 Louisiana Assessor Offices and 64 Communication District (911) offices (one for each Parish) throughout the state. This data has been mapped at the parish (county) level to provide a crude but effective tool for visualization of under-served areas. It also helps us identify the type of broadband service being provided to these anchor institutions.

- Goal: Outreach Objective: Broadband awareness among businesses and community colleges. Major Activity: Broadband surveys to the following groups:

- o Louisiana Industrial Development Executives Association (LIDEA)
- o Louisiana Association of Business and Industry
- o Louisiana Community Colleges

Results: We are still collecting survey responses.

- Goal: Outreach Objective: Broadband awareness among local governments and community groups. Major Activity: Broadband presentations to the following broadband stakeholders:

- o Louisiana Chapter of the National Emergency Numbering Association Meeting in Pineville, LA.
- o Chitimacha Tribe in Charenton, LA.

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

The State is planning to schedule a series of regional meetings in three locations in the state where broadband capability is less available. The first meeting will take place in April followed by two additional meetings during the summer.

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

The use of online surveys has not been as successful as we anticipated. The survey completion rate has been poor, and we have gotten minimal assistance from the organizations whose members we are surveying. As a possible mitigation strategy, we will investigate ways to offer a tangible benefit to those who complete the survey.

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

LAGIC has been collecting detailed anchor institution data for the Broadband project using the data format provided by NTIA. We have received assistance from a number of parishes in reviewing the data for accuracy and completeness.

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

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12b. Signature of Authorized Certifying Official

Submitted Electronically

12e. Date Report Submitted
(Month, Day, Year)

01-28-2011