

U.S. DEPARTMENT OF COMMERCE

Performance Progress Report

2. Award Or Grant Number

22-50-M09030

4. Report Date (MM/DD/YYYY)

10-14-2010

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,

5. City, State, Zip Code

Baton Rouge, LA 70802

8. Final Report?

Yes

No

9. Report Frequency

Quarterly

Semi Annual

Annual

Final

7. Project / Grant Period

Start Date: (MM/DD/YYYY)

11-01-2009

7a.

End Date: (MM/DD/YYYY)

10-31-2014

8. Reporting Period End Date:

(MM/DD/YYYY)

09-30-2010

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
65	65	50	3	43	43

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.
- 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) is currently underway. 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.
- 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 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 (\leq 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 currently underway. 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?

14

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

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?

8.95 FTE

10n. Staffing Table

Job Title	FTE %	Date of Hire
GIS Technician	67	01/15/2010
Broadband Engineer	34	02/15/2010
Statistician	34	02/15/2010
Data Analyst / Systems Administrator	100	
GIS Training Coordinator	100	
Field Technician	40	03/15/2010
3 - GIS Specialists	70	
3 - GIS Technicians	70	
Manager	50	
Student Worker	50	

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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	Broadband Mapping Data Validation and Provider Outreach	N	Y	03/01/2010	02/28/2013	\$182,880	\$9,705
LA Geographic Information Center	Broadband Planning Support	N	Y	03/01/2010	02/28/2013	\$498,648	\$125,292
(to be determined)	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? \$589,209 10q. How much Remains? \$6,060,470

10r. How much matching funds have been expended as of the end of last quarter? \$180,353 10s. How much Remains? \$1,580,482

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	\$35,412	\$35,412
Personnel Fringe Benefits	\$178,742	\$31,180	\$209,922	\$0	\$10,608	\$10,608
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	\$580,689	\$71,690	\$652,379
Subcontract #1	\$926,900	\$110,000	\$1,036,900	\$580,689	\$71,690	\$652,379
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	\$589,209	\$180,353	\$769,562
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$6,649,679	\$1,760,835	\$8,410,514	\$589,209	\$180,353	\$769,562
% 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

- LAGIC is compiling the results of two online surveys of local government institutions regarding the status of broadband service in their community. We are awaiting approval from the Broadband Advisory Council for the distribution of three additional surveys:

- * Broadband Advisory Council
- * Louisiana Association of Business and Industry
- * Louisiana Community Colleges

- We have made presentations regarding the Broadband Project to the following groups:

- * Louisiana Broadband Advisory Council
- * St. Charles Parish Government
- * St. John Parish Government
- * Louisiana Geographic Information Council
- * Louisiana Chapter of the National Emergency Numbering Association

- LAGIC has posted information for Broadband providers at a website we developed for the Broadband Mapping Project; www.broadband.la.gov

- LAGIC purchased a database of retail and industrial locations throughout the state. We will check the accuracy of the location information for the 18 parishes included in the Planning Phase of the Project.

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

- Online surveys have some limitations in that the response rate can be low, respondents rarely call when they have a question with the survey or do not understand a question. Respondents who are unfamiliar with internet speed testing may not complete the speed test included on the survey. Not every internet user checks their e-mail regularly.

We have redesigned the online survey form to make it easier to fill out. We have removed a couple ambiguous questions and reworded a couple others.

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

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

Additional Planning Information

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

No.

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. See 11b for mitigation strategies.

The LAGIC Project Team is requesting street center line and address data from parish governments with some success. LAGIC developed an online tool for local governments that do not have GIS capability to use in providing address data for the project. The Flex application allows parishes or municipal governments to edit geospatial data (address points, anchor institution locations, etc.) without having GIS software or having GIS data editing skills.

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. Having recently completed surveys of broadband usage among Louisiana Assessors and Communication Districts, we will continue surveying anchor institutions regarding broadband access and capability including county (parish) government, community/senior centers and community colleges.

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

12c. Telephone
(area code, number, and extension)

(225) 219-4025

Ass't Director Statewide Techn

12d. Email Address

neal.underwood@la.gov

12b. Signature of Authorized Certifying Official

Submitted Electronically

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

10-29-2010

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