

U.S. DEPARTMENT OF COMMERCE

Performance Progress Report

2. Award Or Grant Number

21-50-M09061

4. Report Date (MM/DD/YYYY)

01-24-2011

1. Recipient Name

Commonwealth of Kentucky

6. Designated Entity On Behalf Of:

Commonwealth of Kentucky

3. Street Address

700 Capitol Avenue,

8. Final Report?

Yes

No

9. Report Frequency

Quarterly

Semi Annual

Annual

Final

5. City, State, Zip Code

Frankfort, KY 40601-3410

7. Project / Grant Period
Start Date: (MM/DD/YYYY)

01-01-2010

7a. End Date: (MM/DD/YYYY)

12-31-2014

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

Our contractor, Michael Baker Inc., has provided information on the status and challenges experienced with each of the providers. For more details, please refer to the Q4 Supplemental Answers Document.

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

Our contractor, Michael Baker Inc., has provided additional verification data sets, along with the progress and activities in collecting the data. For more details, please refer to the Q4 Supplemental Answers Document.

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

Confidence Level Reporting: Development of a System for Evaluation and Assessment Statistics (SEAS) continues for validation automation. Identified areas of discrepancy will be flagged for reporting confidence level of the data per provider at 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. Deployment of this automated statistical reporting process is scheduled before the April 1, 2011 delivery to the NTIA.

Audit of Wireless Broadband Availability Reporting: Wireless coverage is evaluated using a contour calculation tool, 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. The Prior Mapping data is also used as a validation source for gap analysis. Deployment of this audit of Wireless Broadband Availability is scheduled before the April 1, 2011 delivery to the NTIA.

Validation by Independent Third-Party: As described during the grant application process and subsequent documents describing scope of work, the Commonwealth has entered into an agreement with a team of geospatial and telecommunications experts representing colleges and universities around the Commonwealth.

Our contractor, Michael Baker Inc., submits a white paper with each data submittal to NTIA.

10g. Have you initiated verification activities? Yes No

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

For more details, please refer to the Q4 Supplemental Answers Document.

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, verification activities were conducted for the October data submittal to the NTIA. In 10f above, it is noted that development of SEAS software continues o automate and enhance validation processes, calculate confidence level and statistical modeling of the data per provider at the census block and road segment level is. Integration of additional data validation efforts conducted by the Commonwealth College/University Team will also be integrated into SEAS. Evaluation of reported fixed wireless coverage utilizing contour calculation tools, as described in 10f above, will also be implemented. Deployment of these verification activities is planned for the April 2011 NTIA submittal.

Staffing

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

5.70

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

We believe that full staffing was achieved during the 3rd Quarter 2010. At this time, university team validators have maximized their staff and will be concluding their involvement. Temporary staff hired by our mapping contractor, Michael Baker Inc., is no longer being utilized.

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

7.54

10n. Staffing Table

Job Title	FTE %	Date of Hire
CADD Technician	5	02/01/2010
Civil Engineer	28	02/01/2010
Environmental Specialist	1	02/01/2010
GIS Associate	10	02/01/2010
GIS Specialist	36	02/01/2010
GIS Technician	1	02/01/2010
Senior Software Developer	5	02/01/2010
Technical Manager	14	02/01/2010
Project Manager (Validation)	11	06/15/2010
Telecommunications Analyst (Validation)	26	06/15/2010
Urban Studies Institute Household Survey Analyst (Validation)	8	06/15/2010
Urban Studies Institute Administrative Assistant (Validation)	2	06/15/2010
Urban Studies Institute Data Collection Methods Analyst (Validation)	2	06/15/2010
Center for Geographic Information Sciences Analyst (Validation)	9	06/15/2010
Urban Studies Institute Vendor Survey Analyst (Validation)	41	06/15/2010
University Faculty (Validation)	2	06/15/2010

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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	Data Collection/ Validation Services	Y	Y	02/01/2010	01/31/2011	981,077	0
Murray State University	Validation Services	N	Y	06/15/2010	03/31/2011	400,000	0

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Funding

10p. How much Federal funding has been expended as of the end of the last quarter? \$1,281,076 10q. How much Remains? \$4,021,403

10r. How much matching funds have been expended as of the end of last quarter? \$289,516 10s. How much Remains? \$1,036,672

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	\$2,748,127	\$798,048	\$3,546,175	\$0	\$71,462	\$71,462
Personnel Fringe Benefits	\$110,920	\$96,826	\$207,746	\$0	\$5,836	\$5,836
Travel	\$182,000	\$6,000	\$188,000	\$0	\$1,334	\$1,334
Equipment	\$18,500	\$16,956	\$35,456	\$0	\$0	\$0
Materials / Supplies	\$50,000	\$0	\$50,000	\$0	\$664	\$664
Subcontracts Total	\$2,067,521	\$0	\$2,067,521	\$1,281,076	\$0	\$1,281,076
Subcontract #1	\$0	\$0	\$0	\$981,076	\$0	\$981,076
Subcontract #2	\$0	\$0	\$0	\$300,000	\$0	\$300,000
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	\$89,307	\$408,358	\$497,427	\$0	\$210,220	\$210,220
Total Direct Costs	\$5,266,375	\$1,326,188	\$6,592,325	\$1,281,076	\$289,516	\$1,570,592
Total Indirect Costs	\$36,342	\$0	\$36,342	\$0	\$0	\$0
Total Costs	\$5,302,717	\$1,326,188	\$6,592,325	\$1,281,076	\$289,516	\$1,570,592
% Of Total	80	20	100	82	18	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

N/A

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
In addition to the obstacles and challenges described earlier in this document with regard to provider compliance, one of the significant challenges of this project has been the collection of anchor institution information (CAI). The Commonwealth working with our subcontractors identified hospitals, health depts, K-12 and higher institution, libraries and local municipal facilities as our most critical CAIs. Our team developed focused surveys for each time of institution and delivered those through institutional leaders around the Commonwealth. Unfortunately, self-reporting of surveys only resulted in a very limited response. With limited personnel resources, it is clear that we will have to develop other methods and identify other resources for obtaining information from our CAIs around the Commonwealth

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project
It should be noted that technical activities for the mapping portion project were at a low ebb in the Q4 2010. After submission of the October data submittal, much of the work done in this quarter was required Commonwealth administrative functions for closing out existing contract years and initiating the renewal process for 2011. In addition, our Commonwealth resources have been focused on administrative and start-up activities resulting from the supplemental grant award in September 2010. Finally, holiday leave significantly reduced the number of working days available in this quarter.

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

Project planning for activities outside of mapping is currently ongoing. In fact, most of the Commonwealth focus this quarter has revolved around initial development of our broadband office, identifying and meeting with potential partners and stakeholders and developing the project plan for the NTIA, due in February 2011.

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 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

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?

No

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

Steve Landers

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

12d. Email Address

steve.landern@ky.gov

12b. Signature of Authorized Certifying Official

Submitted Electronically

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

01-28-2011