

**U.S. DEPARTMENT OF COMMERCE**

**Performance Progress Report**

2. Award Or Grant Number

49-50-M09054

4. Report Date (MM/DD/YYYY)

10-17-2011

1. Recipient Name

Utah Public Service Commission

6. Designated Entity On Behalf Of:

State of Utah

3. Street Address

Heber Wells Building, Fourth Floor, 160 East 300 South,

8. Final Report?

Yes

No

9. Report Frequency

Quarterly

Semi Annual

Annual

Final

5. City, State, Zip Code

Salt Lake City, UT 84111-2305

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:

09-30-2011

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

No challenges have occurred this quarter. The semi-annual updated data set has been filed in accordance with communication between the Utah Automated Geographic reference center and representative of the National Telecommunications Information Agency.

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

n/a

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

The Utah Broadband Mapping and Planning Project (Broadband Project or Project) Team continued data review sessions with broadband providers including a review of mobile broadband drive test data collected in July 2011. The Project Team also reviewed FCC and state-level field test data in conjunction with individual provider data and began reviewing provider web sites for advertised speeds.

10g. Have you initiated verification activities?  Yes  No

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

Interactive data review sessions have been conducted with the majority of Utah's providers including rural ILEC/DSL providers to better delineate service availability boundaries, speeds and technologies used. In July 2011, a defined set of over 6000 miles were driven while conducting mobile broadband service tests across the state. During the drive testing, data was collected from consumer mobile phone devices connected to an industry standard testing platform. This data set is actively being compared to provider submitted service areas. The Broadband Project plans to release the entire mobile broadband field test data set, complete with the Test Plan and other documentation, into the public domain in the near future. Information on the release of this data can be found under the Broadband Blog at <http://www.utah.gov/broadband/index.html>. The test plan and snapshots of the data are currently available on the State Broadband Initiative Grantee PBworks web site.

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

n/a

**Staffing**

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

Jobs created include hours worked on the Broadband Project for the following activities: 1) Vendor Engagement Manager: primary

project contact and responsible for program and project management; 2) Vendor Project Coordinator/Administrator: assists Engagement Manager in creating weekly and monthly status reports, responsible for time and expense tracking as well as general project coordination duties; 3) Vendor Subject Matter Expert (SME)/Assistant Engagement Manager: domain expert in telecommunications and responsible for managing various team member activities and deliverable creation; 4) Vendor SME/Computer Consultant: responsible for web administration; and 5) Vendor performing wireless data collection for verification efforts. Jobs descriptions 1 through 5 were responsible for 551.30 hours worked or 1.06 FTE for Q3. Two full time jobs have been created at the Utah Governor's Office of Economic Development to conduct broadband outreach and planning activities. These jobs are responsible for 2.0 FTEs for Q3. Jobs created/retained by the State include hours worked on the Broadband Project by those employees at the Automated Geographic Reference Center (AGRC) responsible for broadband mapping project management, coordination with other state agencies and vendors, overseeing the development of a geodatabase to manage and store submissions from broadband providers, data coordination, data validation, project support, and web application development. The jobs at the AGRC are responsible for 983.75 hours worked or 1.89 FTE for Q3. In addition a team headed by Utah State University faculty is working on a determinants of broadband demand study. The efforts of this team resulted in 140 hours worked or .27 FTE for Q3. All of these jobs total 5.22 FTE for Q3 for this project.

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?

The Broadband Project is fully staffed for now, however in the future the Broadband Project Team anticipates a maximum of approximately 6 to 7 FTE jobs during any individual quarter. This number will vary from quarter to quarter based upon future planned activities and associated work loads.

10n. Staffing Table

Job Title	FTE %	Date of Hire
IRC Subject Matter Expert/Engagement Manager	6	03/01/2010
IRC Subject Matter Expert/Assistant Engagement Manager	1	03/01/2010
IRC Project Coordinator	2	03/01/2010
IRC Subject Matter Expert/Computer Consultant	1	03/01/2010
Wireless Data Collector Consultant	47	05/27/2011
Wireless Data Collector Consultant	48	05/27/2011
Broadband Mapping/Planning Project Manager	100	04/26/2010
Broadband Mapping/Planning Project Coordinator	100	05/11/2011
AGRC Director	2	01/01/2010
AGRC Project Manager	37	01/01/2010
AGRC Data Coordinator	76	01/01/2010
AGRC Data Coordinator	6	01/01/2010
AGRC Data Coordinator	67	01/01/2010
AGRC Web Application Developer	1	01/01/2010
Utah State University Project Manager	5	01/24/2011
Utah State University Project Staff	11	01/24/2011
Determinants of Broadband Demand Study Data Collector	12	06/10/2011

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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
International Research Center (Subcontract #1)	Broadband mapping provider outreach, data collection and data verification activities	Y	Y	02/11/2010	10/11/2014	620,000	0
Utah Interactive (Subcontract #2)	Broadband project web page development and application integration into the Utah State web site	Y	Y	08/16/2010	12/31/2011	40,000	0
FME/Safe Software Inc. (Subcontract #3)	Data management portal software	Y	Y	01/31/2011	01/31/2016	230,000	0
To Be Determined (Subcontract #4)	Local Government Activity-Based Contracts for Addressing Project	N	N	04/01/2012	12/31/2014	200,000	0
To Be Determined (Subcontract #5)	Broadband mapping provider outreach, data collection and data verification activities. Award years 3 through 5	N	N	02/01/2012	12/31/2014	600,000	0
To Be Determined (Subcontract #6)	Broadband project web page updating and integration inot the Utah State Web site. Award years 3 through 5	N	N	01/01/2012	12/31/2014	45,000	0
To Be Determined (Subcontract #7)	Contractor for Interactive Mapping, updating Data Portal, and use of crowd sourcing data. Award years 3 through 5	N	N	01/01/2012	12/31/2014	138,000	0
To Be Determined (Subcontract #8)	Data sets for Wireless Data Verification	N	N	01/01/2012	12/31/2014	33,000	0
To Be Determined (Subcontract #9)	Local Government Activity-based Contracts for addressing project from Supplemental Award	N	N	04/01/2012	12/31/2014	175,000	0
Utah State University (Subcontract #10)	Conduct Determinants of Broadband Demand Study	Y	Y	01/24/2011	12/31/2014	90,625	0
To Be Determined (Subcontract #11)	Conduct Public Awareness Campaign	N	N	03/01/2012	12/31/2014	230,000	0

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### Funding

10p. How much Federal funding has been expended as of the end of the last quarter? \$1,373,215      10q. How much Remains? \$3,822,810

10r. How much matching funds have been expended as of the end of last quarter? \$686,932      10s. How much Remains? \$612,075

### 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	\$2,149,254	\$119,895	\$2,269,149	\$771,913	\$66,194	\$838,107
Personnel Fringe Benefits	\$223,800	\$6,720	\$230,520	\$0	\$0	\$0
Travel	\$138,131	\$0	\$138,131	\$8,262	\$0	\$8,262
Equipment	\$2,000	\$0	\$2,000	\$0	\$0	\$0

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Materials / Supplies	\$78,625	\$0	\$78,625	\$3,221	\$0	\$3,221
Subcontracts Total	\$2,401,625	\$0	\$2,401,625	\$584,063	\$0	\$584,063
Subcontract #1	\$620,000	\$0	\$620,000	\$490,468	\$0	\$490,468
Subcontract #2	\$40,000	\$0	\$40,000	\$28,595	\$0	\$28,595
Subcontract #3	\$230,000	\$0	\$230,000	\$65,000	\$0	\$65,000
Subcontract #4	\$200,000	\$0	\$200,000	\$0	\$0	\$0
Subcontract #5	\$1,311,625	\$0	\$1,311,625	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$202,590	\$1,172,392	\$1,374,982	\$5,756	\$620,738	\$626,494
Total Direct Costs	\$5,196,025	\$1,299,007	\$6,495,032	\$1,373,215	\$686,932	\$2,060,147
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$5,196,025	\$1,299,007	\$6,495,032	\$1,373,215	\$686,932	\$2,060,147
% Of Total	80	20	100	67	33	100

### Hardware / Software

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

10v. If yes, please list

Not during this reporting period, however, the Broadband Project previously purchased licenses of FME Desktop and FME Server.

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

Annual Software licensing maintenance fees are planned for Safe Software FME Desktop and Server in future years and for maintenance of the Utah Broadband web site (<http://www.utah.gov/broadband/index.html>) by Utah Interactive in future years.

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

10y. If yes, please list

One-time copies of Media Print Cable Boundaries and American Roamer were purchased in Spring 2010.

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

10aa. If yes, please list

In September, the Broadband Project completed estimates of unserved households using provider reported data for residential broadband availability and 2010 Census Data. A summary of those statistics is available on the Broadband Blog on the Utah Broadband we site (<http://www.utah.gov/broadband/index.html>).

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing Awards to local governments for the address point data collection project have been delayed. The Broadband Project Team has attempted to initiate this activity through a partnership with both local governments and the public safety/E911 community, the coordination of which has taken longer than anticipated. During meetings held in Q3 2011 an approach has been developed with input/buy in from both the local governments and public safety community. The time line for this approach is that contracts will be executed for data collection activities by the end of Q1 2012 and funding will by issued by the end of Q2 2012. Currently implementation and data collection plans are under development.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project. The Broadband Project Team has begun working on the development of a higher-capacity broadband map for planning purposes. The map will be used as a foundation for infrastructure mapping and coordination for broadband buildout. The Broadband Team is initially focusing on Community Anchor Institution data, especially from the Utah Education Network, who leases access from providers to deliver services to schools, libraries and state agencies. In addition, please note the remark added to "Section 12. Remarks" of the Broadband Project's Q3 SF425 Form, "Note: The Federal share of expenditures on this report (line e) does not match ARRA 1512 Report (cell E14) due to more recent financial information available after close of reporting period. The -\$455.92 difference between this report and the ARRA 1512 Report is due to the estimated accrued salary and benefits for a month with three pay periods being a little off. This amount equates to only 0.033% (i.e., \$455.92/\$1,373,215.04) of total grant expended as of the date of this report and has been determined to be immaterial. Therefore the ARRA 1512 report has not been updated.

### 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

\*\*Finalize Phase 1 Survey: Material printed and prepared, finalize survey design—Due June 30, 2011—complete. The demand survey was held up last quarter because we were waiting for inquiry responses from the NTIA project office regarding survey question standardization. Utah State University's Institutional Review Board recently approved the survey design and the survey house is scheduled to begin the survey immediately.

\*\*Implement Phase 1 Survey, Complete data analysis, Phase 1 Final Report—Due June 30, 2011—not complete. Utah State University's Institutional Review Board recently approved the survey design and the survey house is scheduled to begin the survey immediately. While the survey design has been completed and approved, the delays in confirmation from NTIA and the delay in the approval from Utah State University's Institutional Review Board have caused the milestone deadline to pass.

\*\*Meetings with local stakeholders: Travel throughout the state to hold meetings and receive input from local, regional and state decision makers for State Plan and Awareness Campaign—Due Sept 30, 2011—complete. The Broadband Project Team conducted two Utah Broadband Advisory Council meetings and held the second annual Utah Broadband Provider Roundtable Meeting. Members of the Project Team also presented to the 2011 Utah Native American Summit and attended the 2011 Tri-State Telecom Conference, the 2011 Rural Utah Summit, and the Washington County Economic Development Council Meeting. We also met with the Bear River Association of Governments and conducted six onsite provider visits in southern Utah. Note: These meetings will continue on as an ongoing project objective.

\*\*Interim broadband committee report: Committee to report findings from initial meetings—Due Sept 30, 2011—complete. We have summarized the findings of the Utah Broadband Advisory Council Meetings and are maintaining a record of significant issues discussed.

11b. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing. See 11a above for complete details on the challenges regarding the implementation and execution of the broadband demand survey. The mitigation strategy is to move back the planned time line and delivery of the survey and its results. In addition, as the results of the Determinants of Broadband Demand Study are necessary for evaluation/development of the planned Broadband Public Awareness Campaign, the schedule for this activity has also slipped. Once the results of the study are available, the requirements of and/or need for the public awareness campaign will be evaluated.

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

As noted in previous responses to planning questions, we will need to update and push back our plans related to the broadband demand survey. We do not anticipate that the delay will materially change any of the project plans, other than moving back milestone tasks for dates associated with the survey.

### 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

11i. Planning Worksheet

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?

- \*\*Responded to fiber availability requests from site selectors requesting diverse, redundant connections for a tier 3 data center.
- \*\*Began development of a high-capacity broadband map for economic development and business recruitment purposes.
- \*\*Participated in National Governor's Association Economic Development and Commerce Staff Advisory Council meeting regarding broadband and Gig.U project, hosted by Blair Levin.

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

Julie Orchard

Utah Public Service Commission

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

801-530-6713

12d. Email Address

jorchard@utah.gov

12b. Signature of Authorized Certifying Official

Submitted Electronically

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

11-15-2011