

**U.S. DEPARTMENT OF COMMERCE**

**Performance Progress Report**

2. Award Or Grant Number  
49-50-M09054

4. Report Date (MM/DD/YYYY)  
10-19-2010

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

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
116	99	64	27	17	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

Two small broadband providers continue to be elusive. Both have been contacted and both initially expressed a willingness to participate, however subsequent efforts to execute non-disclosure agreements or obtain data have been unsuccessful. The Broadband Project Team will develop provider-specific plans to attempt to either engage these small providers or reverse map their relevant data.

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

Two providers data were generated through digitization of their respective website service map.

The Project Team also generated service area estimates for 6 providers who were not able or unwilling to provide complete service area data. Most of these providers were DSL providers (4) so we utilized locations of COs and DSLMs together with ESRI Network Analyst using transportation network as a surrogate for distance. It was also done for wireless providers (2) given antennae locations and directions using viewshed analysis within ESRI 3D Analyst.

Until data is submitted directly from providers, we will continue the above methods to provide base estimates and will augment them with:

- 1) Crowd-sourced information collected through broadband.utah.gov and other social media.
- 2) Additional provider information delivered through the state's anchor institutions.
- 3) Active monitoring of coop entity and association activities, industry news, FCC or PSC registrations.

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

**\*\*Provider Engagement:** The critical verification objective for the next six months is to actively engage providers in verification activities. To date, verification activities have included comparing provider submitted and extrapolated data to commercial data sources and to FCC speed test data; where GIS and technology expertise is pooled to examine technology and spatial logic of the data submissions. In the next 6 months, Utah will seek to augment those activities by focusing more on collaborative and face-to-face verification activities through outreach and follow-up to the feedback packages sent to providers in Q3. - Due date: May 1, 2011.

10g. Have you initiated verification activities?  Yes  No

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

**\*\*Feedback Package:** The GIS sub-team sent its initial round of feedback packages to broadband providers including maps and data with initial analysis of provider submitted data. The purpose of the broadband provider feedback package is to give the providers significant and relevant feedback on their data submittal, seek to remedy any issues with data quality and procedures, elicit their subsequent biannual data submittals or updates, reinforce their engagement in State policy initiatives and planning, and continue to foster an ongoing relationship and dialogue with the State.

An ongoing engagement mechanism with providers is critical for improved subsequent data submittals and updates. This active coordination will assist in capturing new data, monitoring market changes, identifying new or expired providers, and ensuring ongoing engagement in state policy and planning activities by providers. - Ongoing.

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?

Per the ARRA 1512 report for the second quarter of 2010, 5.5 jobs were created or retained during the third quarter of 2010. For more details, please refer to the Q3 Supplemental Answers Document. Note staffing dates for existing state employees in the table listed below are currently unknown. The grant award date is substituted for this information.

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

Project is not fully staffed as website development contractor has not yet been retained. In addition, some positions approved in the supplemental grant award will not be staffed until a future date based upon NTIA's approval of revised, detailed project plans. We do not anticipate that the lack of staffing at the current time will impact the project's time line.

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. This number is based upon the addition of one new FTE in 2011, incremental .5 FTS retained, and the on-going activities as represented by the average of work conducted during Q3 of 2010.

10n. Staffing Table

Job Title	FTE %	Date of Hire
IRC Subject Matter Expert/Engagement Manager	29	03/01/2010
RC Subject Matter Expert/Engagement Manager	5	03/01/2010
IRC Project Coordinator	15	03/01/2010
IRC Subject Matter Expert/Asst. Engagement Mgr.	31	03/01/2010
IRC GIS Lead	23	03/01/2010
IRC GIS Team	27	03/01/2010
IRC Subject Matter Expert/NDA & Process	3	03/01/2010
IRC Subject Matter Expert/Computer Consultant	2	03/01/2010
IRC Provider Data Gatherer	7	03/01/2010
IRC Provider Data Gatherer	2	03/01/2010
IRC Project Secretary	9	03/01/2010
GOED Broadband Mapping & Planning Coordinator	100	04/26/2010
AGRC Project Manager (existing state employee)	48	01/04/2010
AGRC Data Manager (existing state employee)	93	01/04/2010
AGRC Data Coordinator (existing state employee)	56	01/04/2010
AGRC Data Coordinator (existing state employee)	47	01/04/2010
AGRC Web App Developer (existing state employee)	14	01/04/2010
AGRC Director (existing state employee)	3	01/04/2010
External Web Developer for web portal	30	01/04/2010

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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
International Research Center LLC	Broadband mapping provider outreach and data collection activities.	Y	Y	02/11/2010	02/11/2015	\$620,000	\$0

Utah Interactive	Broadband Project Web Page and Application Integration into the Utah State web site	Y	Y	08/16/2010	12/30/2011	\$30,000	\$0
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### Funding

10p. How much Federal funding has been expended as of the end of the last quarter? \$507,239      10q. How much Remains? \$4,688,786

10r. How much matching funds have been expended as of the end of last quarter? \$76,551      10s. How much Remains? \$1,222,456

#### 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	\$185,449	\$30,551	\$216,000
Personnel Fringe Benefits	\$223,800	\$6,720	\$230,520	\$0	\$0	\$0
Travel	\$138,131	\$0	\$138,131	\$269	\$0	\$269
Equipment	\$2,000	\$0	\$2,000	\$0	\$0	\$0
Materials / Supplies	\$78,625	\$0	\$78,625	\$1,785	\$0	\$1,785
Subcontracts Total	\$2,401,625	\$0	\$2,401,625	\$319,736	\$0	\$319,736
Subcontract #1	\$620,000	\$0	\$620,000	\$319,736	\$0	\$0
Subcontract #2	\$40,000	\$0	\$40,000	\$0	\$0	\$0
Subcontract #3	\$200,000	\$0	\$200,000	\$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	\$202,590	\$1,172,392	\$1,374,982	\$0	\$46,000	\$46,000
Total Direct Costs	\$5,196,025	\$1,299,007	\$6,495,032	\$507,239	\$76,551	\$583,790
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$5,196,025	\$1,299,007	\$6,495,032	\$507,239	\$76,551	\$583,790
% Of Total	80	20	100	87	13	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

\*\*FME Server (Safe Software): approx. \$40,000-\$80,000

As part of the scope of the Data Management and Portal Development project, AGRC is exploring an automated software solution to streamline ongoing data collection efforts from broadband providers. Complete requirements for this solution were not fully defined until the most recent data submission to NTIA in October 2010 which documented the most comprehensive participation from providers. It is anticipated that a software solution will be purchased by March 2011.

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

10y. If yes, please list

• No data sets have been purchased this quarter, however, those data sets purchased in the 1st quarter (American Roamer and Cable Service Area Boundaries) are being used for data verification activities.

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

Engaging the last couple of non-responsive small providers continues to be a minor issue. During the 4th quarter the team will develop specific plans to encourage participation by these providers.

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

The GIS Sub team developed a reverse mapping methodology to assist in data collection and verification which was posted on the NTIA user participant website and utilized by several other states.

## 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

The Utah Broadband Project has three objectives, namely to identify existing barriers to the adoption and deployment of broadband services and information technology services in Utah, to promote the adoption of broadband services statewide, and to effectively interface with the Utah broadband mapping effort. With the exception of the establishment of a broadband outreach and adoption committee and a broadband technology implementation committee, the project milestones and goals are being achieved in a timely manner. For more details, please refer to the Q3 Supplemental Answers Document.

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

\*\*Grant administration and reporting requirements continue to be a challenge—The planning team has implemented a bi-weekly report that focuses on accomplishments, challenges and action items. These reports are being used to facilitate and simplify quarterly reporting for both state and federal requisites.

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

On September 27, 2010, the Utah Broadband Project's application for supplemental funding was granted by the NTIA. Pursuant to the Supplemental Award Condition #22, a revised, detailed project plan associated with the State's broadband planning activities will be drafted and submitted to NTIA in January 2011. No major changes to the planning objectives previously mentioned are anticipated, however, additional milestones will be developed and included in the detailed project plan.

## 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?

\*Hosted booth at Utah League of Cities and Towns Annual Convention—9/2010.

\*Finalized the design phase of the Project's broadband website: <http://broadband.utah.gov> with Utah Interactive—7/1-10/2010.

(Website expected to launch in November)

\*Attended Tri-State Telecom Conference (conference for rural ILECS in UT, ID, and WY)—7/2010.

\*Submitted data feedback to all providers participating in 7/2010 NTIA data submission—completed 9/2/2010.

\*Presented to the Governor's Office of Economic Development Governing Board—9/2010.

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

\*\*Challenge: Broadband provider engagement—The Broadband Mapping and Planning Coordinator's time is to be split equally between mapping and planning for the project. Because engagement of rural ILEC providers was challenging and required more engagement and planning than expected for the Coordinator, some tasks related to planning milestones were delayed (ie-committee establishment and initial meetings). Also, out of office meetings and conferences (many of which have been extremely useful in the state's broadband planning efforts) have made it difficult to manage reporting requirements and ongoing project management. The Project team is in the process of mitigating this challenge by hiring another team member to assist in managing ongoing provider engagement efforts and event planning.

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

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

801-530-6713

Utah Public Service Commission

12d. Email Address

jorchard@utah.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