

**U.S. DEPARTMENT OF COMMERCE**

**Performance Progress Report**

2. Award Or Grant Number

23-50-M09062

4. Report Date (MM/DD/YYYY)

10-12-2011

1. Recipient Name

State of Maine, ConnectME Authority

6. Designated Entity On Behalf Of:

State of Maine

3. Street Address

138 Statehouse Station,

8. Final Report?

Yes

No

9. Report Frequency

Quarterly

Semi Annual

Annual

Final

5. City, State, Zip Code

Augusta, ME 04333-0138

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:

NA

**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 project team has not entered into data sharing agreements with the following providers:

- ACS Telecom Inc.
- Broadview Networks Holdings, Inc.
- Bullseye Telecom
- Caprock Communications
- Cybertek Web Connection
- Hughes Network Systems
- Hussey Communications
- Level 3 Communications
- Matrix Telecom
- Mitel Netsolutions
- Paetec Communications
- Qwest Communications International, Inc.
- RCN Corporation
- Segtel
- SkyWay USA
- Utel (d/b/a Bay Ring Communications)
- Wholesale Carrier Services
- World Discount Telecommunications (WDT)

For more details, please refer to the Q3 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

Community Anchor Institutions – The Community Anchor Institution (CAI) data set has been assembled from several different sources such as the State of Maine Office of GIS (MEGIS), State of Maine Office of Information Technology (OIT), NAVTEQ NAVSTREETS Points of Interest, the State of Maine Department of Health and Human Services (DHHS), the State of Maine Office of Risk Management, the State of Maine Emergency Management Agency, the University of Maine System, Maine School and Library Network (MSLN), Maine’s Research & Education Network (MaineREN), National Center for Education Statistics, and SteepleCom. The project team conducted an extensive phone survey task to collect broadband service data for the CAI records. As of 30-September-2011, the existence of broadband service has been captured for 2,904 out of 4,379 CAI records. We are planning to conduct a second round of phone surveys during the fourth quarter of 2011.

Third Party Commercial Data Sets – The project team has licensed the CoverageRight by State product from American Roamer for Maine. CoverageRight contains coverages for both mobile and fixed wireless providers. These coverages are being compared to coverages created from provider data submittals to help verify the extents of the served areas and could potentially infill areas where providers have not yet submitted data.

The project evaluated the MicroBuild Broadband Indicator product from Gadberry Group for Maine as well as a broadband pricing product for Maine from Telogical Systems. The project team determined that the products do not offer the level of information necessary to justify their costs.

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

Provider Validation  
Speed Test Tool  
Field Verification  
Online Survey  
Mail Survey  
Telephone Survey  
Service Locations / Failed Service Locations  
FCC Form 477 Aggregate Data  
FCC Consumer Broadband Test (CBT) Data  
Third Party Commercial Data Sets  
Broadband Availability Website  
Static Map Gallery Website  
E911 ALI Database Report

For more details, please refer to the Q3 Supplemental Answers Document.

10g. Have you initiated verification activities?  Yes  No

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

The project team has initiated the following verification activities:

Provider Validation  
Speed Test Tool  
Field Verification  
Online Survey  
Mail Survey  
Telephone Survey  
Service Locations / Failed Service Locations  
FCC Form 477 Aggregate Data  
Third Party Data Commercial Sets  
FCC Consumer Broadband Test (CBT) Data  
Broadband Availability Website  
Static Map Gallery Website

For more details, please refer to the Q3 Supplemental Answers Document.

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

The project team expects to initiate the following verification activity:

E911 ALI Database Report:

Due Date – The project team is prototyping a process that will geocode the records included in a E911 ALI database and link address counts to the streets in the GIS. The team intends to continue working on this process and plans to have it ready for use in fourth quarter of 2011.

## Staffing

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

1.37

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

NA

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

1.37

10n. Staffing Table

| Job Title                       | FTE % | Date of Hire |
|---------------------------------|-------|--------------|
| Executive GIS System Consultant | 5     | 09/02/2009   |
| Project Manager                 | 9     | 09/02/2009   |
| Project Coordinator             | 30    | 09/02/2009   |
| Programmer                      | 7     | 09/02/2009   |
| GIS System Analyst III          | 40    | 09/02/2009   |
| GIS System Analyst II           | 38    | 09/02/2009   |
| GIS System Analyst I            | 1     | 09/02/2009   |
| GIS Technician III              | 5     | 09/02/2009   |
| GIS Technician I                | 1     | 09/02/2009   |
| Administrative Assistant        | 1     | 09/02/2009   |

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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 |
|-------------------------------|------------------------|------------------|-------------------------|------------|------------|---------------|---------------|
| James W. Sewall               | Mapping                | Y                | Y                       | 09/09/2009 | 09/20/2012 | 3,485,000     | 228,754       |
| James W. Sewall               | Planning               | Y                | Y                       | 08/24/2010 | 12/31/2014 | 436,000       | 111,633       |
| Maine State Planning Office   | Capacity Planning      | N                | Y                       | 01/31/2011 | 12/31/2014 | 777,452       | 155,236       |
| Maine Department of Education | Technical Assistance   | N                | Y                       | 02/02/2011 | 12/31/2014 | 690,040       | 250,457       |

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**Funding**

10p. How much Federal funding has been expended as of the end of the last quarter? \$1,185,364      10q. How much Remains? \$3,793,128

10r. How much matching funds have been expended as of the end of last quarter? \$375,281      10s. How much Remains? \$968,554

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         | \$67,670              | \$275,324        | \$342,994    | \$0                    | \$28,166                | \$28,166             |
| Personnel Fringe Benefits | \$33,330              | \$85,889         | \$119,219    | \$0                    | \$10,642                | \$10,642             |
| Travel                    | \$19,010              | \$36,699         | \$55,709     | \$0                    | \$2,710                 | \$2,710              |

| Mapping Budget Element | Federal Funds Granted | Proposed In-Kind | Total Budget | Federal Funds Expended | Matching Funds Expended | Total Funds Expended |
|------------------------|-----------------------|------------------|--------------|------------------------|-------------------------|----------------------|
| Equipment              | \$0                   | \$0              | \$0          | \$0                    | \$0                     | \$0                  |
| Materials / Supplies   | \$32,500              | \$0              | \$32,500     | \$0                    | \$0                     | \$0                  |
| Subcontracts Total     | \$3,986,140           | \$119,038        | \$4,105,178  | \$1,290,383            | \$0                     | \$1,290,383          |
| Subcontract #1         | \$2,486,500           | \$10,000         | \$2,496,500  | \$0                    | \$0                     | \$0                  |
| Subcontract #2         | \$430,000             | \$10,000         | \$440,000    | \$0                    | \$0                     | \$0                  |
| Subcontract #3         | \$468,000             | \$0              | \$468,000    | \$0                    | \$0                     | \$0                  |
| Subcontract #4         | \$511,640             | \$99,038         | \$610,678    | \$0                    | \$0                     | \$0                  |
| Subcontract #5         | \$90,000              | \$0              | \$90,000     | \$0                    | \$0                     | \$0                  |
| Construction           | \$0                   | \$0              | \$0          | \$0                    | \$0                     | \$0                  |
| Other                  | \$690,380             | \$826,885        | \$1,517,265  | \$1,953                | \$72,304                | \$74,257             |
| Total Direct Costs     | \$4,829,036           | \$1,224,607      | \$6,172,865  | \$0                    | \$0                     | \$0                  |
| Total Indirect Costs   | \$149,462             | \$0              | \$149,462    | \$0                    | \$0                     | \$0                  |
| Total Costs            | \$4,978,492           | \$1,343,835      | \$6,322,327  | \$1,292,336            | \$113,822               | \$1,406,158          |
| % Of Total             | 79                    | 21               | 100          | 92                     | 8                       | 100                  |

### Hardware / Software

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

10v. If yes, please list

Speed Test Tool – The underlying technology for the Speed Test web application belongs to Ookla Networks. Ookla Networks received a one time fee to customize the tool for the State of Maine speed test web site and receives a yearly license fee.

Associated Cost – Customization fee: \$1,000.00; first year license fee: \$495.00; second year license fee: \$495.00

Database and Server Software Licenses – In order to host the Service Provider Data Upload web application and store the provider data submitted, licenses for Windows Server and for SQL Server, Standard Edition were acquired. To develop the provider data upload application, Adobe Flex was acquired.

Associated Cost – Windows Server & SQLServer, Standard Edition: \$4,369.92; Adobe Flex: \$498.00

Mobile Wireless Field Collection Units – Hardware and software were purchased for the mobile wireless field collection units. The hardware included laptops with mobile wireless USB connection modems/cards and the software included Microsoft Office applications and Microsoft Streets and Trips.

Associated Cost – Laptops and software: \$2,757.04; USB wireless air cards: \$1,856.25

Geoportal & Static Map Gallery Website - The website was implemented based on James W. Sewall's GeoPortal platform.

Associated Cost – Implementation & customization fee: \$8,000.00; 2011 Hosting Fee/Support/Maintenance fee: \$3,000.00; 2012 Hosting Fee/Support/Maintenance fee: \$4,800.00; 2013 Hosting Fee/Support/Maintenance fee: \$4,800.00;

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

NA

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

10y. If yes, please list

The project team licensed a third party road centerline data set for Maine. The NAVTEQ NAVSTREETS product was licensed to fill in those areas in the State of Maine that are not currently covered by the State's E911 roads data set. The Maine Office of GIS licensed product.

The project team licensed CoverageRight by State product from American Roamer for Maine. The American Roamer CoverageRight product for Maine has a 2 year license agreement at a fee of \$12,671.25. Thus far the Mapping project has paid the costs for the first year - \$6,335.63.

The project team has purchased residential and business address lists from InfoUSA. At this point the Mapping project has acquired 10,000 addresses from InfoUSA at a cost of \$650.00.

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

10aa. If yes, please list

For details, please refer to the Q3 Supplemental Answers Document.

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing  
The Mapping project team has encountered challenges in the following areas:

Provider Data Formats

State E911 Street Coverage

Misalignment between Year 2010 Census Blocks & Maine E911 Streets

Fixed Wireless Propagation Modeling

Middle Mile Locations

Resellers

Data Confidence Intervals

Assimilating Verification Findings

CAI Broadband Service Information

For more details, please refer to the Q3 Supplemental Answers Document.

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

NA

## 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 major activities for the Planning project are:

- Project Setup
- Data Gathering
- Data Analysis
- Needs Assessment
- Strategic Plan
- Program Implementation
- Measure Effectiveness
- Refine Strategic Plan

For more details, please refer to the Q3 Supplemental Answers Document.

Major activities for the Technical Assistance Project are:

Maine Department of Education Adult and Community Education Team began recruiting adult education programs to become the Community Connection for broadband technical assistance. Thirty nine programs covering all the States major cities and towns have signed a Memorandum of Understanding. The Team designed a handout to be distributed to all participating adult education programs for use in the technical assistance presentations. The team began recruiting teachers for the Maine Adult Regional Technology Initiative Training. Forty nine teachers have enrolled in the course. A Kickoff introduced the broadband project to the Trainer and Mentors providing them information to be shared with the teachers in the program. This included a presentation on the Maine State Library Broadband website.

Major activities for the Capacity Building Project are:

The members of the Broadband Capacity Building Advisory Task Force were contacted and confirmed as participants. The task force includes nine members from a variety of geographies and backgrounds. A series of orientation sessions will be held by staff and the task force chair. The orientations are scheduled for October and November. The first task force meeting is scheduled for early December. The contractor has researched best practices and met with their high level advisory group.

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

The Planning project team has encountered challenges in the following areas:

Reaching Rural Residents

Survey Returns

Subscriber Counts



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

NA

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

Lisa Leahy

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

12d. Email Address

Lisa.Leahy@maine.gov

12b. Signature of Authorized Certifying Official

Submitted Electronically

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

11-22-2011