U.S. DEPARTMENT OF COMMERCE	2. Award Or Grant Number
Performance Progress Report	23-50-M09062
	4. Report Date (MM/DD/YYYY)
	07/30/2010

1. Recipient Name	6. Designated Entity On Behalf Of:	
State of Maine, ConnectME Authority		

3. Street Address	8. Final Report?	9. Report Frequency
138 SHS	○ Yes	⊙ Quarterly
		○ Semi Annual
5. City, State, Zip Code	⊙ No	○ Annual
Augusta ME 04333-0138		○ Final

7. Project / Grant Period Start Date: (MM/DD/YYYY)	7a. End Date: (MM/DD/YYYY)	8. Reporting Period End Date: (MM/DD/YYYY)	9a. If Other, please describe:
01/01/2010	12/31/2014	07/31/2010	

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
53	53	37	11	24	5

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

XpressAmerica Internet – Roland Lawler of XpressAmerica Internet informed us that XpressAmerica has elected not to participate in this project. We requested written confirmation of this on 7-May-10 and did not receive anything in return.

ACS Telecom Inc. – We have been informed by ACS Telecom Inc. that they will not provide us their data without compensation even though they have executed an NDA. We received email confirmation of this from ACS Telecom Inc. on 18-Mar-10.

Middle Mile Locations – Many of the service providers who have submitted data have not included middle mile locations. These providers have communicated that they are unwilling to release this information.

Smaller Service Providers – Some of the smaller service providers have informed the project team that they want to participate but are struggling to find the resources necessary to compile the requested data.

Resellers – It can be challenging trying to determine how resellers fit into this project. Providers who strictly resell services offered via another provider's network do not own their facilities, and therefore, cannot provide information regarding the location of the facilities or extents of service. While the project team has attempted to include resellers among the list of providers for the State broadband availability website, many resellers do not want to participate since NTIA originally did not include them as part of the data being gathered for the national map.

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, NAVTEQ NAVSTREETS Points of Interest, the State of Maine Department of Health and Human Services, the State of Maine Office of Risk Management, the State of Maine Emergency Management Agency, the University of Maine System, and SteepleCom.

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

10g. Have you initiated verification activities? ⊙ Yes ○ No

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

Provider Validation – Once the service coverage for a provider has been constructed from the provider's source data, a spatial representation of the coverage is sent to the provider for validation. As of 30-June-10, 21 providers had been sent service coverages for validation. This validation step will continue throughout the project as providers' coverages are built.

Speed Test Tool – An Internet speed test site was brought online on 13-Jan-10. Through 30-June-10 8,486 tests had been recorded. The speed test stores downstream and upstream speeds as well as the user's address and the user's ISP. The results from the Speed Test tool are being geocoded and the information used to help verify service coverages and service speeds for wired, fixed wireless, mobile wireless, and satellite providers.

Field Verification – Four of the five mobile wireless coverages were verified using a sampling of field collected points. As of 30-June-10, the fifth mobile wireless provider had not yet submitted data. It is anticipated that field verification for the fifth mobile wireless carrier will take place during the third quarter.

Online Survey – The project team has implemented an online version of a broadband service questionnaire using the Survey Monkey website. The questionnaire asks about whether or not a consumer has Internet service and if so, what type of service (DSL, cable, fixed antennae wireless, satellite, etc.). If not, it asks whether service is available and if the consumer has had Internet service at the address previously. The survey records online will be combined with the mail survey records. As of 30-June-10, 107 records had been recorded.

Mail Survey – One of the ways the project team expects to verify service coverages for wireless, fixed wireless, and satellite providers is by using mailed surveys. Surveys will be mailed to residences and businesses in Maine's communities within indicated service areas. The actual survey will consist of a three

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

Staffing

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

5.82

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

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

10n. Staffing Table

Job Title	FTE %	Date of Hire
Executive GIS Consultant	0.12	
Sr. Project Manager	0.23	
Project Manager	0.32	
GIS Technician I	0.62	
GIS Technician II	1.63	
GIS Technician III	0.68	
GIS Analyst I	0.02	
GIS Analyst II	0.8	
GIS Analyst III	1.26	
Software Developer II	0.03	
Programmer	0.14	
Sr. Administrative Asst.	0.01	
Database Programmer	0.02	

Add Row   Remove Row

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
none							

Add Row   Remove Row

Funding

10p. How much Federal funding has been expended as of the end of the last quarter? $324,843   10q. How much Remains? $1,459,656

10r. How much matching funds have been expended as of the end of last quarter? $82,188   10s. How much Remains? $227,812

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	$0	$28,754	$28,754	$0	$7,188	$7,188
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	$32,500		$32,500	$0	$0	$0
Subcontracts Total	$1,316,000	$10,000	$1,326,000	$324,844	$0	$324,844
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
Construction	$0	$0	$0	$0	$0	$0
Other		$310,000	$310,000		$75,000	$75,000
Total Direct Costs	$1,348,500	$348,754	$1,697,254	$324,844	$82,188	$407,032
Total Indirect Costs	$0	$0	$0	$0	$0	$0
Total Costs	$1,348,500	$348,754	$1,697,254	$324,844	$82,188	$407,032
% Of Total	79.45	20.55	100	79.8	20.2	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 web site and receives a yearly license fee.
Database and Server 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.
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.

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

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

10y. If yes, please list
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.
Other potential third party data sets – The project team is in the process of evaluating several commercially available third party data sets from venders including: DeLorme, Mitchell Geographics, American Roamer, InfoUSA, and ID Insight.

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

10aa. If yes, please list
Collaboration – The project team has contact and worked with several interested parties in compiling current data sets including:
• NTIA
• FCC
• State of Maine ConnectME Authority
• State of Maine Public Utilities Commission
• State of Maine Office of GIS
• State of Maine Office of Information Technology
• State of Maine Department of Health and Human Services
• State of Maine Office of Risk Management
• State of Maine Emergency Management Agency
• Maine's First Nations
  Maliseet Houlton
  Passamaquoddy at Indian Township
  Passamaquoddy at Pleasant Point
  Penobscot
• University of Maine System
• Maine's Three Ring Binder Project
• State of New Hampshire SBDD Grantee
• State of Washington SBDD Grantee
• Maine Municipal Association

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing
Provider Data Formats – Due to the wide variety of data sets submitted by providers, processing the data has required each to have its own unique workflow. The data sets submitted by service providers have come in many different formats including Excel spreadsheets, CSV text files, ESRI shapefiles, KML, MapInfo, AutoCAD, JPEG, and paper maps. Columns in Excel spreadsheets and CSV files require mapping to the target database schema. Some of the spatial data sets have come without projection and coordinate system information. In many cases the data sets require multiple processing steps including conversion, translation, and transformation to reach a point where the data can be used. In a couple of instances, the provider did not have digital data to submit and the project team provided hardcopy maps for the provider to delineate the extents of service.
State E911 Road Coverage – While the State of Maine's E911 roads data set is the primary road centerline source there are communities and unorganized areas that are not part of the E911 program and are currently covered. Several commercially available road centerline data sets were evaluated with NAVSTREETS product from NAVTEQ being licensed to fill in the areas without E911 roads coverage.
Fixed Wireless Propagation Modeling – Viewshed propagation modeling is being used to determine the theoretical extents of fixed wireless service coverages. A viewshed is constructed over a DTM elevation model using input parameters supplied by the providers such as the transmitter's location and height, strength of signal, and vertical and horizontal transmission angles. Initial runs generated results with numerous small 'holes' in the visible coverage. Through a process of repeated tests and discussions with fixed wireless providers, it was determined that a standard offset or common height for the receiver should be used. This height was determined to be 15 feet.

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

State of Maine Broadband Website – The State is on schedule to have a public-facing broadband availability website deployed and operational during the third quarter. The website will show service coverages as well as return potential broadband providers when a user enters an address.

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

Award Decision, ConnectME Authority, RFP # RFP-CME-#18B-201005697 for Broadband Planning Project.

On July 14, 2010, the ConnectME Authority RFP evaluation panel, using the weighted criteria outlined in the RFP, completed its review of the Broadband Planning proposals received. The panel's highest evaluation went to the James W. Sewall company. The award decision is subject to approval by the State Purchases Review Committee. The ConnectME Authority has contacted the James W. Sewall to finalize a contract for these services.

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

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

Funding

11e. How much Federal funding has been expended as of the end of the last quarter? $0

11f. How much Remains? $436,000

11g. How much matching funds have been expended as of the end of last quarter? $0

11h. How much Remains? $111,633

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	$43,133	$43,133	$0	$0	$0
Personnel Fringe Benefits	$0	$0	$0	$0	$0	$0
Travel	$0	$15,500	$15,500	$0	$0	$0
Equipment	$0	$0	$0		$0	$0
Materials / Supplies	$0	$0	$0	$0	$0	$0
Subcontracts Total	$430,000	$50,000	$480,000	$0	$0	$0
Subcontract #1	$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	$6,000	$3,000	$9,000	$0	$0	$0
Total Direct Costs	$436,000	$111,633	$547,633	$0	$0	$0
Total Indirect Costs	$0	$0	$0	$0	$0	$0
Total Costs	$436,000	$111,633	$547,633	$0	$0	$0
% Of Total	79.6	20.3	100	100	100	100

Additional Planning Information

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

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

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

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.

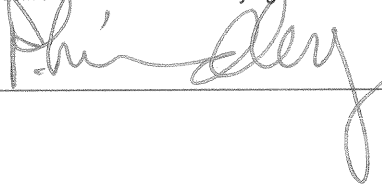|	
12a. Typed or Printed Name and Title of Authorized Certifying Official Phillip Lindley Executive Director, ConnectMe Authority	12c. Telephone (area code, number, and extension) 207-624-9970
	12d. Email Address phil.lindley@maine.gov
12b. Signature of Authorized Certifying Official	12e. Date Report Submitted (Month, Day, Year) 7/30/2010

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