

U.S. DEPARTMENT OF COMMERCE

Performance Progress Report

2. Award Or Grant Number
50-50-M09004

4. Report Date (MM/DD/YYYY)
10-21-2010

1. Recipient Name
Vermont Center for Geographic Information, Inc.

6. Designated Entity On Behalf Of:
N/A

3. Street Address
58 South Main Street, Suite 2,

8. Final Report? 9. Report Frequency
 Yes Quarterly
 No Semi Annual
 Annual
 Final

5. City, State, Zip Code
Waterbury, VT 05676

7. Project / Grant Period
Start Date: (MM/DD/YYYY)
10-01-2009

7a. End Date: (MM/DD/YYYY)
10-01-2011

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
38	38	8	0	36	36

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 providers, Great Awk Wireless and GlobalNet, have indicated that they were not willing to provide data for the 6/30/2010 data period. A few small and moderate sized providers have indicated to our liaison with the Providers that the request is a burden and they do not have the time or resources to collect and provide this information. They also indicated that, in their opinion, the effort provides no benefit to their business. So far, only the two companies indicated have refused to provide 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

A variety of data source and data collection methods were used to identify the characteristics and geographic extent of broadband service in Vermont. Here is a quick breakdown

- Cable: Mapped to street/street-segment level
- DSL: Mapped as polygons (usually Exchange areas) or address points (list of addresses submitted by provider).
- Fiber Optic: Mapped as address points (list of address submitted by provider)
- Fixed Wireless (WISP): Mapped as polygons (propagation maps prepared by independent contractor using data provided by WISPs)
- Mobile Wireless: Mapped as polygons (data submitted by provider)
- Satellite: Mapped as polygons (data submitted by provider). Providers of satellite-based broadband services claimed that they covered the entire state.

The cable, DSL, fiber optic, and fixed wireless (WISP) layers were intersected with Vermont's E911 address point layer to determine broadband availability at the address-level. This information was then intersected with Vermont's 2000 Census Block layer to calculate availability at the block level. The October 1st, 2010 deliverable includes Census block-level data for all of Vermont, and address level data for Census blocks greater than 2 sq miles.

Mobile wireless and satellite-based broadband polygons were submitted by providers to VCGI. They were formatted to match NTIA specification, but otherwise forwarded as-is.

Vermont's broadband providers submitted data which was used to populate a table listing maximum advertised and typical speeds by Metropolitan Statistical & Rural Service Areas (Cellular Market Areas).

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

Our Team has collected drive test data covering ~3400 miles of Federal Aid roads in VT. The drive testing was completed in June of 2010. The data from the drive testing was received in September of 2010 and we are only now beginning to review the results and develop a verification plan for how (or if) we will integrate that data into the statewide coverage data set.

Additionally, field verification and public survey methods will continue for the duration of the grant as described in our original and supplemental grant proposals.

10g. Have you initiated verification activities? Yes No

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

The BMT used the data from a phone survey conducted by the UVM Center for Rural Studies (CRS) to verify the broadband maps. Respondents were asked to indicate whether they had broadband at their residence, and were asked to provide their address. The addresses were geocoded (mapped to a lat/long coordinate), then used to verify the broadband map. The final results of this analysis were not available as of 10/19/2010 (when VT_Package_Oct1_2010_v1.zip was released. The results will be bundled with "version 2".

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?

There were 2.38 jobs retained and .98 jobs created this quarter.

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?

Estimate 3-5 (FTE) jobs created or maintained when fully staffed.

10n. Staffing Table

Job Title	FTE %	Date of Hire
GIS Technician - VCGI - maintained	53	12/07/2009
Telecommunications Infrastructure Specialist-DPS - maintained	100	10/20/2009
3 positions maintained - Dept. of Public Service	4	
2 partial positions maintained - VCGI	62	
Pericle Corporation - positions maintained	100	
University of VT, Center for Rural Studies positions maintained	25	
Applied Geographics - position maintained	21	
Marketing Partners - position maintained	100	

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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
Pericle Communications	Propagation Mapping and Drive Testing	Y	Y	01/01/2010	09/30/2010	\$315,600	\$0
UVM/ Center for Rural Studies	Customer survey and verification	Y	Y	10/01/2009	09/30/2010	\$80,742	\$0
VT Dept. of Public Service	Data collection from providers	Y	Y	09/15/2009	09/30/2014	\$518,547	\$0
Applied Geographics Inc.	BroadbandVT.org Website Development	Y	Y	06/15/2010	12/30/2012	\$89,540	\$0
Marketing Partners, Inc.	Broadband VT.org Marketing Support	Y	Y	08/02/2010	12/30/2010	\$31,750	\$0

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Funding

10p. How much Federal funding has been expended as of the end of the last quarter? \$505,960 10q. How much Remains? \$3,037,036

10r. How much matching funds have been expended as of the end of last quarter? \$299,374 10s. How much Remains? \$586,376

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	\$740,401	\$195,484	\$935,885	\$58,173	\$0	\$58,173
Personnel Fringe Benefits	\$434,436	\$0	\$434,436	\$43,244	\$0	\$43,244
Travel	\$12,800	\$0	\$12,800	\$0	\$0	\$0
Equipment	\$21,000	\$0	\$21,000	\$0	\$0	\$0
Materials / Supplies	\$58,175	\$0	\$58,175	\$840	\$0	\$840
Subcontracts Total	\$1,606,770	\$0	\$1,606,770	\$323,094	\$0	\$323,094
Subcontract #1	\$248,800	\$0	\$248,800	\$195,900	\$0	\$195,900
Subcontract #2	\$80,742	\$0	\$80,742	\$30,570	\$0	\$30,570
Subcontract #3	\$267,805	\$0	\$267,805	\$66,624	\$0	\$66,624
Subcontract #4	\$89,540	\$0	\$89,540	\$20,000	\$0	\$20,000
Subcontract #5	\$31,750	\$0	\$31,750	\$10,000	\$0	\$10,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$19,000	\$690,266	\$709,266	\$0	\$299,374	\$299,374
Total Direct Costs	\$2,892,582	\$885,750	\$3,778,332	\$425,351	\$299,374	\$724,725
Total Indirect Costs	\$650,414	\$0	\$650,414	\$80,609	\$0	\$80,609
Total Costs	\$3,542,996	\$885,750	\$4,428,746	\$505,960	\$299,374	\$805,344
% Of Total	80	20	100	63	37	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

The workstation hardware has not been purchased yet, but it will be purchased in the next quarter. The VT Broadband Mapping Team is still making decisions about our web strategy etc. and it is not yet clear as to whether we will be purchasing the software identified in our proposal. That decision will be made within the design discussions that will take place with our website development contractor. We hope to resolve these purchases very soon.

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

Problems were encountered compiling Census block level data for the following providers. These are therefore not in the BB_Service_CensusBlock layer. They will be added in the version 2 release of the June 30th, 2010 dataset.

Not in BB_Service_CensusBlock, VT_ProviderID DoingBusinessAs
WirelessVT Solutions
Fairpoint Vermont
Finowen
North Country Communications

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

Changing the delivery data model in early September really impacted our ability to deliver the data by October 1. Our data development processes are scripted to ensure that the data is created consistently and through similar methods for each delivery. Changing the data model so close to the delivery date required us to rewrite and test a number of our data development scripts. It is understandable that the data model will need to change, but please do not release the changes so close to the data delivery date.

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

VT Received no funding for Broadband Planning.

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

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?

N/A

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

David F Brotzman

Executive Director

12b. Signature of Authorized Certifying Official

Submitted Electronically

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

802-882-3003

12d. Email Address

davidb@vcgi.org

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

10-26-2010

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