

**U.S. DEPARTMENT OF COMMERCE**

**Performance Progress Report**

2. Award Or Grant Number  
36-50-M09010

4. Report Date (MM/DD/YYYY)  
09-28-2010

1. Recipient Name  
NY State Office of Cyber Security & Critical Infrastructure

6. Designated Entity On Behalf Of:  
New York State

3. Street Address  
30 South Pearl Street, P-2,

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

5. City, State, Zip Code  
Albany, NY 12207

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

7a. End Date: (MM/DD/YYYY)  
09-30-2014

7b. Reporting Period End Date:  
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
330	315	75	41	37	77

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

Only eight providers did not agree to participate in the program. Most expressed strong reservations regarding the State's ability to protect their confidential data in light of New York's Freedom of Information Law (FOIL). Some providers cited difficulty in responding in the requested format and/or on a timely basis. To facilitate the gathering and submission process on the part of providers, the Broadband Mapping Project has offered multiple methods and formats for data delivery.

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

The New York State Broadband Mapping Project has engaged the Center for Technology in Government (CTG) at the University at Albany (New York) to develop "The New York State Broadband Speed Test" website. This effort began early in the third quarter of 2010. The objective of this project is to provide a web-based application that uses "crowd sourcing" to survey and collect information regarding users' access to broadband services. It allows users to run a speed testing tool to identify the actual broadband speeds they experience at the time the test is taken. Speed data, provider name, technology used and the location the test was taken from will be captured and delivered to the NYS Broadband project team to assist with the verification of information received directly from providers. A statistically significant number of users are being recruited throughout the State to ensure valid and reliable verification results.

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

Many verification plans have already been implemented. See 10 e. and 10h. In addition, the New York State Broadband Mapping Project has recently launched its public broadband mapping website which includes an interactive map. Via the map and a dedicated email account, users of the mapping application will be able to report potential inaccuracies in availability. NYS will use this information to loop back to the providers in order to further verify the accuracy of their availability information.

10g. Have you initiated verification activities?  Yes  No

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

Verification activities conducted to-date are as follows:

- i. Sent providers broadband maps by census block, and asked them to verify the accuracy of the information within them.
- ii. Use of automated database business rules to verify the accuracy of data and coded values.
- iii. Comparison of commercially available telephone company exchange boundaries to operating footprints supplied by providers.
- iv. Checking for census blocks and street segments coded with provider availability that falls outside of known operating territories.
- v. Spatial checks to make sure middle-mile and backbone interconnection infrastructure points fall within New York State and not within water.
- vi. Implemented the New York State Broadband Speed Test web site to verify provider broadband speed and availability information.

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

Verification activities have been initiated.

**Staffing**

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

7.4 jobs.

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

The project plan for the recently approved extension to the program includes additional staff to execute an address point project and to a lesser extent, implement several leading practices. NYS has begun work to fill these positions. The NYS hiring process is detailed and time consuming under normal circumstances. Current circumstance will likely add to the length of time needed to fill the new positions. Existing staff will be used to begin some of the new activities outlined in the project plan. Contracting may be necessary to fill gaps if the hiring process is significantly delayed.

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

10.2 FTEs

10n. Staffing Table

Job Title	FTE %	Date of Hire
Project Director	100	10/26/2009
Project Assistant	100	12/17/2009
GIS Technologist 1	100	12/24/2009
GIS Technologist 1	100	05/25/2010
IT Specialist (Business Analyst)	100	02/22/2010
IT Specialist (Infrastructure)	36	03/04/2010
IT Specialist (Applications Programming)	100	03/04/2010
Applications Developer (Subcontract)	16	08/18/2010
Project Manager (Subcontract)	88	04/05/2010

**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
MVP Consulting Plus, Inc. (Subcontract 1)	GIS Analyst - To provide short-term assistance with GIS data processing and data validation in preparation for the 3/31/2010 initial data delivery and related follow-up activities.	Y	Y	02/17/2010	08/17/2010	49,887	0
Troy Web Technologies (Subcontract 2)	Application Programmer to develop a project tracking application and other web-based project resources.	Y	Y	01/14/2010	01/13/2011	49,500	0
Computer Technology Services (Subcontract 3)	Project Manager responsible for refinement and maintenance of the project plan; development of federal and state status reports; management of subcontracts and tracking of procurements; security reviews, etc.	Y	Y	03/25/2010	09/25/2011	248,625	0

Center for Technology in Government - State University of New York at Albany (Subcontract 4)	Public outreach and sampling services. Deliverables will include provider, technology and speed data independently sampled	Y	Y	07/01/2010	06/01/2014	183,873	0
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### Funding

10p. How much Federal funding has been expended as of the end of the last quarter? \$715,773      10q. How much Remains? \$8,207,759

10r. How much matching funds have been expended as of the end of last quarter? \$448,163      10s. How much Remains? \$1,782,234

#### 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	\$3,833,658	\$950,052	\$4,872,975	\$256,649	\$140,758	\$397,407
Personnel Fringe Benefits	\$1,816,171	\$381,859	\$2,240,436	\$138,192	\$75,946	\$214,138
Travel	\$140,818	\$7,206	\$125,201	\$310	\$0	\$310
Equipment	\$551,242	\$184,211	\$779,664	\$205,203	\$0	\$205,203
Materials / Supplies	\$45,015	\$1,200	\$47,415	\$81	\$0	\$81
<b>Subcontracts Total</b>	<b>\$1,906,029</b>	<b>\$705,869</b>	<b>\$2,604,267</b>	<b>\$120,058</b>	<b>\$231,459</b>	<b>\$351,517</b>
Subcontract #1	\$49,887	\$0	\$49,887	\$27,048	\$0	\$27,048
Subcontract #2	\$49,500	\$0	\$49,500	\$21,780	\$0	\$21,780
Subcontract #3	\$248,625	\$0	\$248,625	\$71,230	\$0	\$71,230
Subcontract #4	\$183,873	\$0	\$183,873	\$0	\$0	\$0
Subcontract #5	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$552,000	\$0	\$552,000	\$0	\$0	\$0
<b>Total Direct Costs</b>	<b>\$8,991,561</b>	<b>\$2,230,397</b>	<b>\$11,221,958</b>	<b>\$715,773</b>	<b>\$448,163</b>	<b>\$1,168,656</b>
<b>Total Indirect Costs</b>	<b>\$78,599</b>	<b>\$0</b>	<b>\$68,996</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Costs</b>	<b>\$8,923,532</b>	<b>\$2,230,397</b>	<b>\$11,153,929</b>	<b>\$715,773</b>	<b>\$448,163</b>	<b>\$1,168,656</b>
<b>% Of Total</b>	<b>80</b>	<b>20</b>	<b>100</b>	<b>62</b>	<b>38</b>	<b>100</b>

## Hardware / Software

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

10v. If yes, please list

7 desktop computers, 1 web application server, 1 database server, local storage disks, 1 tape drive, data tapes, network switches, network firewall, Melissa Data data quality software tools, Pervasive extract/transform/load software, Oracle database software (1 enterprise version and 1 basic version), ColdFusion application development software, Dreamweaver web design and development software, Toad database development and administration software, and SecureFX data transfer software.

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

Hardware and software described in the application have been purchased. However, the NYS Broadband Mapping Project team anticipates there will be additional expenditures to upgrade, maintain and replace computing equipment and for software maintenance and license renewals.

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

10y. If yes, please list

The NYS Broadband Mapping Project has licensed Melissa Data quality software tools (which contains a US Postal Service database) with federal funds. The NYS Broadband Mapping Project has also licensed data from NAVTEQ, Dun & Bradstreet and TeleAtlas as part of the NYS 20% match.

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

10aa. If yes, please list

i. Milestone: The New York State Broadband Speed Test Implementation

On September 1, 2010, New York State Broadband Mapping Project, through its partner, the Center for Technology in Government (CTG) of the University at Albany, released its first major public application; "The New York State Broadband Speed Test". The speed test web site allows public users throughout the state to determine their incoming and outgoing internet speeds. Speed data, provider name, technology used and the location the test was taken from will be captured and delivered to the NYS Broadband project team to assist with the verification of information received directly from providers. Please visit <http://nyspeedtest.org/>.

ii. Milestone: New York State Interactive Broadband Mapping Website Implementation

1. On September 24, the "New York State Interactive Mapping Website" became operational. The state map consists of information to educate the public about broadband concepts, hence, "demystifying" its attributes and explaining its benefits. The map allows the public to search geographic locations within the state for the purpose of finding broadband availability by participating providers. It also allows the public to compare availability between different locations in the state. In addition, the public may download high speed Internet service availability by providing company information at the census block level. Please visit <http://broadbandmap.ny.gov/>.

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing  
Collection of Community Anchor Institution information has proven to be more difficult than anticipated. The Broadband Team now plans to collect this information through the Speed Test web site that was recently implemented for OCS by the Center for Technology in Government (see question 10e, above). Enhancements to that site are proposed in order to develop a new "section" for community anchor institution representatives to directly enter speed and technology information.

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

i. To date, a total of 330 potential providers have been identified by the New York State Broadband Mapping Team. We have been able to contact 315 of these companies. A total of 252 of those contacted did not result in a program participant because they either do not fit the definition of broadband providers, (i.e., dial-up; resellers, etc. 103), are not Internet providers (telephone only; 96), or did not agree to participate (8). A total of 30 providers are planning to participate in a future round. A total of 78 providers are participating now and submitted data in Round 2. Of the 78 data sets received, we have verified 77 of them, and are working to obtain additional information from the submitting provider to verify the last dataset. This information is more fully detailed in Q3\_2010\_Provider\_Table.xlsx

## 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

1. Mapping/GIS Activities Required under NYS Executive Order #22: No new activates this quarter.

2. Broadband Stimulus Program Office - Operations Support: The Program Office continues to conducting the day-to-day business of the NYS Broadband Council.

3. Analysis of Business Needs via an Industrial-Level Internet Connectivity: This activity will be substantially accomplished through a business leader summit with the New York State Business Council, National Federation of Independent Business, New York State Retail Council, and other industry sectors such as the movie and financial services industry to allow New York State to create a Connectivity Roadmap for the next ten years. This activity has not yet started

4. Broadband Adoption Rate Study: The Office of Cyber Security is currently negotiating a Memorandum of Understanding with the University at Albany's Center for Technology in Government to conduct the study. This work is anticipated to begin during the fourth quarter of 2010.

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

No major planning challenges have been encountered.

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

No changes anticipated

## 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?

No

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

No major planning challenges have been encountered.

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

No additional information is necessary in the Broadband Planning category.

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

Carl Schell

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

12d. Email Address

carl.schell@cscic.state.ny.us

12b. Signature of Authorized Certifying Official

Submitted Electronically

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

11-16-2010

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