U.S. DEPARTMENT OF COMMERCE	2. Award Or Grant Number
	36-50-M09010
Performance Progress Report	4. Report Date (MM/DD/YYYY)
	07-07-2011

1. Recipient Name	6. Designated Entity On Behalf Of:
NY State Office of Cyber Security & Critical Infrastructure	New York State

3. Street Address	8. Final Report?	9. Report Frequency
30 South Pearl Street, P-2,	◯ Yes	⦿ Quarterly
	⦿ No	◯ Semi Annual
5. City, State, Zip Code		◯ Annual
Albany, NY 12207		◯ Final

7. Project / Grant Period Start Date: (MM/DD/YYYY)	7a. End Date: (MM/DD/YYYY)	7b. Reporting Period End Date:	9a. If Other, please describe:
10-01-2009	09-30-2014	06-30-2011	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
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

On April 1, the New York State Broadband Team delivered its third round of provider data to the NTIA.   Round 3 included data from 100% of known facilities-based (wireline) end user providers and all significant wireless service providers in NYS.

Challenges:

The following providers have said that they would provide data to us, but have not yet done so: High-Speed Solutions, Intellifiber Networks, InterGlobe Communications, Internet Professionals & Network Solutions (IPNS), LaunchNet, Plexicomm, LLC, CBN Connect, Inc., Development Authority of the North Country (DANC), Independent Optical Network (ION), Talk America Inc. (Cavalier Telephone), Zayo Group, and New Edge Network, Inc. CBN Connect, DANC, and ION are all infrastructure companies. Although they have no retail customers, they are a challenge because they provide important backbone and middle-mile information.

Several providers were discovered in too short a time to collect their data for the Round 3 submission.   They are: WNY Net, Airxcess, NYAir, Logical Net, CNY Communications, Finger Lakes Technologies Group, and Primelink, Inc. Finger Lakes Technologies Group and Primelink, Inc. did, however, send data after our Round 3 data was submitted.   Their data was included in the latest update of our Broadband Map which was updated on 6/30/2011.

As of Round 3, Towerstream Technologies, Backbone Communications Inc., and Telnes Broadband have declined to participate in the program. Also as of Round 3, RGTS (Rockefeller Group Tech. Solutions) has been non-responsive to our outreach efforts to request their 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

Since July of 2010, the NYS Broadband Mapping Team has been receiving independently collected speed data through a joint effort with the Center for Technology in Government (CTG). A web-based application uses "crowd sourcing" to survey and collect information regarding NYS users' access to broadband services. It allows users to run a speed test to identify the actual broadband speeds they experience at the time the test is taken. The speed data, provider name, technology used and the location where the test was taken are being captured. The data is being used to assist with the verification of information received directly from providers. 6,043 NYS residents had taken the speed test as of the end of this reporting period.

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

Many verification plans have already been implemented; see 10 e. and 10h. Future verification activities will involve use of additional crowd sourced, commercial, and public data sources for further verification methods; use of aggregated 477 data, and additional outreach to encourage broadband mapping site visitors to provide feedback. For more details, please refer to the Q2 Supplemental Answers Document.

10g. Have you initiated verification activities? ⦿Yes ◯No

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

The New York State Broadband Team used many automated and non-automated methods to verify the data received from providers:

Activity Initiated Name: Data transfer business rules – Status: Active and successful

Activity Initiated Name: NTIA supplied Python scripts – Status: Active and successful

Activity Initiated Name: ESRI 'Check Geometry' and 'Fix Geometry' tools – Status: Active and successful

Activity Initiated Name: Clipping all data to the NYS boundary file – Status: Active and successful

Activity Initiated Name: Duplicate records check – Status: Active and successful

Activity Initiated Name: Check the vertical alignment and area designation of all census blocks loaded in the geodatabase – Status: Active and successful

Activity Initiated Name: Provider feedback verification – Status: Active and successful

Activity Initiated Name: Use of crowd-sourced data – Status: Active and successful

Activity Initiated Name: NYS Broadband Map feedback – Status: Active and successful

Activity Initiated Name: Verizon NY (wire-line) specific scrubbing – Status: Active and successful

For more details, please refer to the Q2 Supplemental Answers Document.

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

Please see 10.f. for future enhanced verification activities.   The additional activities will begin as we receive Round 4 data.

Staffing

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

6.51

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 activities approved in our supplemental award includes acquiring additional staff for the creation of a statewide address point file, and to a lesser extent, to assist with the implementation of NTIA recommended leading practices. During the second quarter of 2011, the Office of Cyber Security went to considerable effort toward creating and obtaining approval for 4 additional Broadband Mapping Project Team positions. The New York State hiring process is detailed and time consuming. Significant progress was made and one hire has been completed. The status of each position is listed below.
• Information Technologist 5 (Pending)
• Information Technologist 2 (Complete, position filled in early July, Q3)
• Mapping Technologist 1 (Complete, position will be filled on August 4, 2011)
• Mapping Technician 3 (Complete, position filled in mid-June)

Early in the second quarter, the contract for the Application Developer ended, thus eliminating that position. During the 4th quarter of 2011, the Project Manager contract will end and this position will also be eliminated.

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

11.5

10n. Staffing Table

Job Title	FTE %	Date of Hire

Project Director	100	10/26/2009
Mapping Technologist 1	100	12/24/2009
Mapping Technologist 1	100	05/25/2010
Information Technology Specialist 2 - Business Analyst	100	02/22/2010
Application Developer - Subcontract	2	08/18/2010
Information Technology Specialist 2 - Infrastructure	27	03/04/2010
Information Technology Specialist 2 - Applications Programming	36	03/04/2010
Student Assistant	85	10/07/2010
Project Manager (Subcontract)	94	04/05/2010
Mapping Technician 3	7	06/27/2011

[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
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	8/17/2010	27,048	0
Troy Web Consulting, LLC (Subcontract 2)	Application Programmer to develop a project tracking application and other web-based project resources.	Y	Y	1/14/2010	1/13/2011	46,888	0
Computer Technology Services of Albany, Inc (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	3/25/2010	9/25/2011	175,865	0
Center for Technology in Government - State University of New York at Albany (Subcontract 4) - See comment in 10cc for reason why there was no RFP.	Speed Test Web Site - Public outreach and sampling services. Deliverables will include provider, technology and speed data independently sampled.	N	N	7/1/2010	6/1/2014	135,616	0

[Add Row]   [Remove Row]

Funding

10p. How much Federal funding has been expended as of the end of the last quarter? $1,201,812   10q. How much Remains? $7,721,720

10r. How much matching funds have been expended as of the end of last quarter? $648,133   10s. How much Remains? $1,582,264

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	$3,240,629	$1,086,246	$4,326,875	$515,950	$176,580	$692,530
Personnel Fringe Benefits	$1,574,712	$441,190	$2,015,902	$278,458	$93,218	$371,676
Travel	$181,025	$7,206	$188,231	$5,257	$0	$5,257
Equipment	$604,942	$184,211	$789,153	$16,634	$378,335	$394,969
Materials / Supplies	$44,715	$1,200	$45,915	$96	$0	$96
Subcontracts Total	$2,877,509	$510,344	$3,387,853	$385,417	$0	$385,417
Subcontract #1	$49,887	$0	$49,887	$27,048	$0	$27,048
Subcontract #2	$49,500	$0	$49,500	$46,888	$0	$46,888
Subcontract #3	$248,625	$0	$248,625	$175,865	$0	$175,865
Subcontract #4	$183,873	$0	$183,873	$135,616	$0	$135,616
Subcontract #5	$2,345,624	$510,344	$2,345,624	$0	$0	$0
Construction	$0	$0	$0	$0	$0	$0
Other	$400,000	$0	$400,000	$0	$0	$0
Total Direct Costs	$8,923,532	$2,230,397	$11,153,929	$1,201,812	$648,133	$1,849,945
Total Indirect Costs	$0	$0	$0	$0	$0	$0
Total Costs	$8,923,532	$2,230,397	$11,153,929	$1,201,812	$648,133	$1,849,945
% Of Total	80	20	100	65	35	100

Hardware / Software

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

10v. If yes, please list

The following were purchased in previous quarters. We had previously reported that all of the items below were purchased with Federal funds. We have since found that reimbursement to the State of New York was not submitted for most items and our financial rules do not permit requesting Federal reimbursement for items purchased more than one State fiscal year previous. Therefore, we plan to request an adjustment to the match calculation in the near future:

Items Purchased with Federal Funds:
• Hardware or Software Name: Melisa Data License Renewal Mailers +4 - Associated Cost: $2,335
• Hardware or Software Name: 7 desktop computers - Associated Cost: $4,641
• Hardware or Software Name: ESRI ArcGIS Data Interoperability Concurrent Use - License Extension - Associated Cost: $2,040.
• Hardware or Software Name: Oracle basic edition - Associated Cost: $1,940.
• Hardware or Software Name: SecureFX - Associated Cost: $231.
• Hardware or Software Name: 3 desktop computers - Associated Cost: $7,848

Items purchased with New York State Funds:
• Hardware or Software Name: Local storage disks - Associated Cost: $2,032
• Hardware or Software Name: 1 tape drive & data tapes - Associated Cost: $7,792
• Hardware or Software Name: Melissa Data data quality software tools - Associated Cost: $14,800
• Hardware or Software Name: Pervasive extract/transform/load software - Associated Cost: $51,627
• Hardware or Software Name: Oracle database software - 1 enterprise version - Associated Cost: $42,597
• Hardware or Software Name: Oracle database software - 1 basic version - Associated Cost: $1,940
• Hardware or Software Name: 1 web application server - Associated Cost: $9,558
• Hardware or Software Name: 1 database server - Associated Cost: $9,558
• Hardware or Software Name: Network switches - Associated Cost: $20,866
• Hardware or Software Name: 1 network firewall - Associated Cost: $13,936
• Hardware or Software Name: TOAD database development and administration sof

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

The software and hardware described in our grant application (and above) has been purchased. However, the NYS Broadband Mapping Project team anticipates and has budgeted for additional expenditures during the life of the program to upgrade, maintain and replace computing equipment; for software maintenance; and for software and data license renewals.

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

10y. If yes, please list
The following data sets were purchased in previous quarters:

Data Set Name: Melissa Data Product Suite – Associated Cost: $14,800.

Data Set Name: NAVTEQ Streets and Address Update and Data License – Associated Cost: $678,008, of which $339,004 is attributed to New York State's In-Kind Match.

Data Set Name: TomTom (formerly Tele Atlas) Wire Center Premium Data License – Associated Cost: $4,950.

For more details, please refer to the Q2 Supplemental Answers Document.

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

10aa. If yes, please list
On September 28, 2010, the New York State Office of Cyber Security was awarded supplemental funding by the NTIA to support years 3 through 5 of the project. This expands the scope of the project and therefore additional milestones have been planned. A detailed project plan was submitted to the NTIA in February 2011 which describes all major milestones. Revisions requested by the NTIA were resubmitted in June 2011, and were approved by both the NTIA and NIST in July 2011.

For more details, please refer to the Q2 Supplemental Answers Document.

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing
Challenge/Obstacle Description: Collection of Community Anchor Institution (CAI) information has proven to be more difficult than anticipated.   Associated Mitigation Strategy: The Broadband Team has engaged CTG, to use their networking channels to contact educational institutions, public libraries and municipal (town) halls to obtain their corresponding broadband level of service data. Additionally, the merger of the Office of Cyber Security (OCS) within the New York State Division of Homeland Security and Emergency Services has created closer relationships with sister agencies that should be able to help us gather service level attributes from public safety CAIs.   OCS' Broadband Mapping Team will coordinate outreach activities to public safety CAIs with its new agency colleagues.

For more details, please refer to the Q2 Supplemental Answers Document.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project
In the Subcontracts Table, above, (10.0.), the columns for "RFP Issued", and "Subcontract Executed" for CTG were entered as "N", because CTG is a New York State governmental entity, and therefore, no RFP and no contract are needed. CTG and the Office of Cyber Security are cooperating under the terms of a Memorandum of Understanding.

In the Budget Worksheet, above, (10.t.) there is an attachment for additional subcontracts. Per a discussion with NTIA on 7/25/11, Subcontract 7 and Subcontract 8 are actually placeholders for future subcontracts. They were needed to bring the total of subcontracts to the actual budgeted amounts of $2,877,508 Federal, and $510,344 State In-Kind Match.

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
Milestone: Mapping/GIS Activities Required under New York State Executive Order #22: - Due Date: Annually upon request from the State Broadband Development and Deployment Program Office - Status: No new activities this quarter. Activities were conducted in July 2011 and significant requests are anticipated for Q3 and Q4 of 2011. NYS' Governor Cuomo has recently announced a major economic development plan for all regions within the State. In July, The NYS Broadband Mapping Team began supplying the NYS Department of Economic Development with broadband availability mapping and related data to assist with this plan.

Milestone: Broadband Stimulus Program Office Operations Support - Due Date: Annually upon request from the State Broadband Development and Deployment Program Office - Status: No new activities this quarter. The State Broadband Development and Deployment Program Office (Program Office) was in a transitional phase during Q1 and Q2 of 2011 with the election of a new governor resulted in the appointment of a new chairman of the NYS Broadband Development and Deployment Council. The Council and the Program Office are currently preparing recommendations for the governor's office. Related support activities requests are anticipated

for Q3 and Q4 of 2011.

Milestone: Analysis of Business Needs via an Industrial-Level Internet Connectivity - Due Date: There is no specific due date at this time but this objective has been transferred to the State Broadband Development and Deployment Program Office as part of the realignment of original $500,000 planning funds. – Status: Not yet started.

Milestone: Broadband Adoption Rate Study - Due Date: The second quarter of 2011. Status: Complete. "The Broadband Internet Service Adoption and Use in New York State Households" Study was presented to the New York State Broadband Development and Deployment Council at the May 10 council meeting. The study's report and data are available for download from our State Broadband website

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

Challenge/Obstacle Description: No planning challenges encountered (other than those mentioned in 11a above) – Associated Mitigation Strategy: 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

A number of hardware and software products were purchased with New York State funds. We have since found that Federal reimbursement requests to New York State were not submitted for most of those items. New York State's financial rules do not permit Federal reimbursement for items purchased more than one State fiscal year previous. Therefore, we plan to request an adjustment to the match calculation for the un-reimbursable items in the near future.

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						
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

N/A

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) 07-27-2011	