

**U.S. DEPARTMENT OF COMMERCE**

**Performance Progress Report**

2. Award Or Grant Number

34-50-M09066

4. Report Date (MM/DD/YYYY)

04-26-2011

1. Recipient Name

State of New Jersey

6. Designated Entity On Behalf Of:

NJ Office of Information Technology

3. Street Address

300 Riverview Plaza,

8. Final Report?

Yes

No

9. Report Frequency

Quarterly

Semi Annual

Annual

Final

5. City, State, Zip Code

Trenton, NJ 08625-0212

7. Project / Grant Period

Start Date: (MM/DD/YYYY)

02-01-2010

7a.

End Date: (MM/DD/YYYY)

01-31-2015

7b.

Reporting Period End Date:

03-31-2011

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
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

One provider, Hotwire Communications, stated during the previous submission round that the process was too onerous and declined to submit data. Network Billing Systems indicated willingness to participate, but did not provide data. NOTE: Of the ~70 providers who have FRNs listed for New Jersey, approximately half were identified as being facilities-based providers based on the NOFA definition. Of the remaining entities, some do not (yet) offer service in NJ and others are resellers.

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

Cogent Communications did not submit data, rather they referred us to the data available on their public web site. All data from Cogent was collected from that site. We collected cable franchise data from state sources as well as other public domain data. We collected CAI data from a variety of sources including outreach to individual institutions, submissions through our web site, and information from organizations that serve CAIs. We completed a consumer phone survey of 3,101 NJ residents including an oversample of 1,241 non-adopters. The survey data is being used for both verification (adopters) and planning work. We are conducting a limited longitudinal study of plan offerings using data collected from provider Web sites and expect to expand this with the funds associated with the amended application.

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

- \* Provider Name and FRN verification against FCC data
  - \* Coverage area limited to NJ
  - \* Address verification via geo-coding
  - \* Validate data in all fields (i.e., census block ids, TIGERLine street segments, speed tier codes)
  - \* Technology and speed consistency checks (versus known provider capabilities and/or Web site advertisements)
  - \* Visual inspection of individual provider coverage maps for outlier detection
  - \* Data consistency across tables
  - \* NTIA validation rule set (i.e., speed codes versus technology, overview versus detail consistency)
  - \* FCC data
  - \* Verification from survey data
  - \* Geospatial neighborhood analysis
  - \* Enhanced longitudinal study from scraper data

10g. Have you initiated verification activities?  Yes  No

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

All data submitted by providers in 2010 was verified using the first 8 items listed in 10f. Initial efforts involving the 9th item -- use of FCC data to assess provider and technology -- have begun.

10i. If verification activities have not been initiated please provide a projected time line for beginning and completing such activities  
 FCC data -- This effort began in 1Q2011 and completion is scheduled for 3Q2011.  
 Verification from survey data -- 2Q2011  
 Geospatial neighborhood analysis -- 2Q2011 - 3Q2011  
 Enhanced longitudinal study -- 3Q2011 - 4Q2011 (to be funded using amended application funds)

**Staffing**

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

2.8 positions were retained as a result of the Broadband Mapping program

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?

N/A

10n. Staffing Table

Job Title	FTE %	Date of Hire
Executive Director/Senior Principal Engineer	30	03/01/2010
Principal Engineer	100	03/01/2010
Senior Systems Engineer	100	03/01/2010
Principal Engineer	40	03/01/2010
Senior Systems Engineer	10	03/01/2010

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
Telcordia Technologies	Perform data collection and planning activities	Y	Y	05/25/2010	05/25/2012	3,637,387	480,304

Add Row

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**Funding**

10p. How much Federal funding has been expended as of the end of the last quarter? \$912,790      10q. How much Remains? \$4,013,316

10r. How much matching funds have been expended as of the end of last quarter? \$252,536      10s. How much Remains? \$1,065,037

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	\$840,000	\$358,268	\$1,198,286	\$0	\$197,589	\$197,589
Personnel Fringe Benefits	\$292,656	\$128,983	\$421,639	\$0	\$54,947	\$54,947
Travel	\$30,927	\$0	\$30,927	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Materials / Supplies	\$125,136	\$350,000	\$475,136	\$0	\$0	\$0

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Subcontracts Total	\$3,637,387	\$480,304	\$4,117,691	\$912,789	\$0	\$912,789
Subcontract #1	\$3,637,387	\$480,304	\$4,117,691	\$912,789	\$0	\$912,789
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	\$4,926,106	\$1,317,573	\$6,243,679	\$912,789	\$252,536	\$912,789
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$4,923,106	\$1,317,573	\$6,243,679	\$912,789	\$252,536	\$1,165,325
% Of Total	79	21	100	73	27	100

### Hardware / Software

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

10v. If yes, please list

PowerEdge T110 Server, \$1229.26, 3Q2010

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

N/A

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

10y. If yes, please list

USPS AISVIEW DVD, \$176.57, 3Q2010

ESRI StreetMAP, \$1047.69, 4Q2010

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

- Address geocoding, particularly in census blocks greater than 2 square miles, has been challenging due to the quality of provider data and timeliness of available street map information. To mitigate this we purchased the latest ESRI street database and have provided direct feedback to providers on problematic addresses. For cable providers, we also made use of NJ BPU data and identified census blocks and street segments based on the municipalities where the operators have franchise licenses.
- Community Anchor Institution (CAI) identification and outreach is time-consuming and response rates can be low due to a lack of centralized organizations that already have data and difficulties in compelling CAIs to respond to queries given their financial pressures. We enhanced our web-based data submission capability for the spring 2011 submission (<http://connectingnj.state.nj.us/>) and are continuing to make enhancements to provide more structure to the submitted data, make it easier for users to enter and update data, and ensure that we can more easily align data with reference data sources. \* There are some challenges regarding



11i. Planning Worksheet

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

Shelley Bates

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

X

12d. Email Address

shelley.bates@oit.state.nj.us

12b. Signature of Authorized Certifying Official

Submitted Electronically

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

07-01-2011