

**U.S. DEPARTMENT OF COMMERCE**

**Performance Progress Report**

2. Award Or Grant Number

72-50-M09040

4. Report Date (MM/DD/YYYY)

01-27-2011

1. Recipient Name

Puerto Rico Governor's Office

6. Designated Entity On Behalf Of:

NA

3. Street Address

P.O. Box 9020082,

8. Final Report?

Yes

No

9. Report Frequency

Quarterly

Semi Annual

Annual

Final

5. City, State, Zip Code

San Juan, PR 00902-0082

7. Project / Grant Period  
Start Date: (MM/DD/YYYY)

12-20-2009

7a. End Date: (MM/DD/YYYY)

12-19-2014

7b. Reporting Period End Date:

12-31-2010

9a. If Other, please describe:

NA

**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

Onelink Communications: The provider has decided not participate due to the resources and time needed to gather the information needed and they have expressed that they see no benefit in participating. Multiple telephone calls and multiple emails have since gone unanswered.

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

We have not collected any data through extraction programs.

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

ESRI is deploying and hosting Connected Nation's BroadbandStat (BBStat) web application. ESRI will house the customized BBStat application in their highly-available, monitored and managed environment. The scope of services includes setting up a staging environment for data verification and compatibility as well as a production environment for client access.

Our sub-contractor, Connected Nation also collects consumer feedback in the form of broadband inquiries. These inquiries represent any type of communications received from the public regarding broadband service. Once broadband inquiries are received across the state, this information is overlaid with the broadband availability information which was collected through the SBDD program. This allows for a real-world comparison of the broadband landscape to the information received from broadband inquiries. Broadband inquiries are able to provide three types of information: 1) residents who do not have broadband but want it; 2) residents who have broadband but want a different provider; and 3) residents who do not have broadband, but the broadband inventory maps indicate that they do. If residents within a region state that they are without broadband, but the broadband inventory maps show otherwise, this allows Connected Nation to approach the providers within that area in an effort to trim down their coverage to more accurately represent real-world availability on the ground.

During Q1 of 2011, Connected Nation has scheduled field validation and concurrent data collection for OneLink in the San Juan metropolitan area as well as fixed wireless testing of Critical Hub Networks on the Northern coastline of Puerto Rico.

10g. Have you initiated verification activities?  Yes  No

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

BroadbandStat was launched publicly during this quarter on the Connect Puerto Rico website and received a total of 88 visits between October 1, 2010 and December 31, 2010.

During this quarter, the Connect Puerto Rico project has received a total of one (1) broadband inquiry.

Ongoing tests were conducted during Q4 focusing on Puerto Rico Telephone Company (DSL) and Liberty Communications (cable modem) but no new providers were targeted. Year end test results indicated a 33.33% field validation completion rate.

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?

1.75  
 Our sub-contractor, Connected Nation, has numerous staff working on this project, some at only a small percentage of their time. This approach is beneficial to the project in various ways: some staff provide necessary project support, many staff work together utilizing a team approach, and others are subject matter experts in their respective areas and by leveraging their expertise the project benefits by their knowledge and skills without the necessity of supporting a more expensive full-time resource.

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?

1.75

10n. Staffing Table

Job Title	FTE %	Date of Hire
Associate Counsel	2	09/14/2009
Business Programmer Analyst	1	04/02/2007
CAI Data Analyst	6	03/24/2009
CAI Data Manager	3	08/09/2010
ETS Analyst	3	11/01/2007
ETS Manager	5	07/01/2007
ETS Sr. Analyst	1	01/28/2010
General Counsel	4	01/01/2007
GIS Analyst	4	09/17/2007
GIS Analyst	10	04/01/2010
GIS Services Manager	6	05/15/2007
Outreach & Awareness Manager	4	03/24/2009
Outreach & Awareness Specialist	1	01/04/2010
Outreach & Awareness Specialist	4	01/04/2010
Outreach & Awareness Specialist	5	01/03/2010
Outreach & Awareness Specialist	6	02/02/2009
Project Coordinator	3	04/01/2005
Project Management Director	1	12/20/2004
Project Manager	1	12/16/2009
Project Manager	2	01/14/2008

Project Manager	2	08/20/2007
Project Manager	21	01/14/2008
Project Manager	12	03/16/2010
Provider Relations Manager	7	02/17/2005
Provider Relations Specialist	3	11/03/2009
Research & GIS Analyst	1	05/14/2007
Research Analyst	2	02/01/2010
Research Analyst	11	06/01/2009
Research Manager	5	05/14/2007
State Services Manager	2	07/01/2007
State Services Sr. Specialist	36	12/20/2009
Research Analyst	1	03/22/2010

**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
Connect Puerto Rico	Mapping and Planning activities	Y	Y	04/10/2010	12/14/2014	1,180,691	0
PR Infrastructure Financing Administration (AFI)	Grant Administration	N	N	03/01/2010	12/14/2014	244,030	0

**Funding**

10p. How much Federal funding has been expended as of the end of the last quarter? \$553,558      10q. How much Remains? \$1,980,120

10r. How much matching funds have been expended as of the end of last quarter? \$149,809      10s. How much Remains? \$490,419

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	\$97,850	\$97,850	\$0	\$6,978	\$6,978
Personnel Fringe Benefits	\$0	\$20,000	\$20,000	\$0	\$1,887	\$1,887
Travel	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$55,000	\$55,000	\$0	\$0	\$0
Materials / Supplies	\$0	\$0	\$0	\$0	\$0	\$0
<b>Subcontracts Total</b>	<b>\$2,522,698</b>	<b>\$0</b>	<b>\$2,522,698</b>	<b>\$553,558</b>	<b>\$30,944</b>	<b>\$584,502</b>
Subcontract #1	\$2,278,668	\$0	\$2,278,668	\$531,596	\$30,944	\$562,540
Subcontract #2	\$244,030	\$0	\$244,030	\$21,962	\$0	\$21,962
Subcontract #3	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #4	\$0	\$0	\$0	\$0	\$0	\$0

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Subcontract #5	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$10,980	\$467,378	\$478,358	\$0	\$110,000	\$110,000
Total Direct Costs	\$2,533,678	\$640,228	\$3,173,906	\$553,558	\$149,809	\$703,367
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$2,533,678	\$640,228	\$3,173,906	\$553,558	\$149,809	\$703,367
% Of Total	20	80	100	21	79	100

### Hardware / Software

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

10v. If yes, please list

Hardware/software purchases for the project to date include the following:

- Broadband Stat-\$64,548
- ESRI ArchInfo/ArcGIS Software-\$1,415.51
- Computers-\$962
- Ookla Net Metrics Speed Test Software-\$2,686

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

Remaining purchases may include SQL server for mapping geodatabase, SQL server software, multiple dedicated storage server, security application, additional backup replication solution, computers, a spectrum analyzer, GPS units, BroadbandStat maintenance, ESRI ArchInfo/ArcGIS maintenance, and speed test updates as well as computers and software maintenance.

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

- \* Maintained and updated the budget/finance cost model for Connect Puerto Rico
- \* Revised the project schedule and work breakdown structure (WBS) with the revised SBDD timeline
- \* Continued to process speed tests, technology assessments, and broadband inquiries from the Connect Puerto Rico website
- \* Updated the project communications plan and outreach strategy
- \* Produced and distributed monthly status reports, data collection activity log and website statistics to the Connect Puerto Rico project team
- \* Continued to identify and collect data from Community Anchor Institutions within the Commonwealth of Puerto Rico
- \* Continued outreach plan to encourage participation by Puerto Rican broadband providers in the broadband mapping project
- \* Continued to solicit broadband coverage datasets from the provider community
- \* Met with Puerto Rican BTOP awardees to discuss collaboration opportunities and broadband adoption strategies
- \* Updated the Puerto Rico BroadbandStat application to enhance the display on the un-served data layer
- \* Created island and municipality level provider speed maps and published the maps to the Connect Puerto Rico website
- \* Finished the analysis of the Puerto Rican business broadband survey raw data
- \* Completed the Puerto Rican Business Technology Assessment report and presented the report to the OCIO
- \* In response to the additional State Broadband Data & Development funding extending the grant through December 2014, project plan alterations and expansion commenced.

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing

Time continues to be of the essence. We continue to assign resources to the extent practical in order to meet the predetermined deadline.

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

On September 27, 2010 the Office of the Governor of Puerto Rico received notice of a grant award extending SBDD mapping activities for an additional three years. The project plan has been revised to include these new activities and will be formally submitted to NTIA by the scheduled deadline.

### 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

On behalf of the Commonwealth of Puerto Rico, Connected Nation (CN) is working with its subcontractors to analyze demand-side data collected through statistical telephone surveys of 814 businesses territory-wide. Quotas were set by industry size and sector to ensure a representative sample of businesses was surveyed, and the results were weighted by industry size and sector to correct for minor variances. Analysis of these business survey results began in Q4 2010, and survey results were provided to the territory in Q4 2010. CN designed these surveys to measure technology adoption, barriers to adoption, and awareness of available broadband service among Puerto Rico businesses, and those results were compared to territory-wide figures provided by participating Internet service providers.

In line with the Project Plan, during Q4 2010, Connect Puerto Rico continued to work with the Office of the CIO to build upon this analysis and these recommendations toward a Broadband Strategic Plan for the Island by year-end 2011. Connect Puerto Rico has conducted research and analysis on policy alternatives outlined in the National Broadband Plan aimed to expand the broadband landscape. During Q4 2010, Connect Puerto Rico worked with OCIO to identify how this policy options might apply to the Puerto Rico broadband landscape.

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

The Office of the Chief Information Officer (CIO) of Puerto Rico has been working closely with Connect Puerto Rico to ensure that their work exceeds expectations. During Q4 2010, there were no significant obstacles during the planning process.

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

Upon approval of the project plan and budget, Connected Nation plans to alter the methodology of the residential survey update that was scheduled for Q1 2011. This updated and improved methodology will provide a greater level of analysis regarding barriers to technology adoption among different socioeconomic and demographic groups. In particular, this revised methodology will oversample non-adopters in Puerto Rico in a way similar to that conducted by the FCC as part of the National Broadband Planning effort. This approach will help create a demographic and socioeconomic profile of the population of non-adopters in Puerto Rico. This information can then be applied at the local level of detail by area planning teams in Puerto Rico, who will be in a better position to develop local adoption initiatives that will target the barriers that are unique to that area.

On September 27, 2010 Connect Puerto Rico received notice of a grant award extending SBDD mapping and planning activities an additional three years. The project plan is currently under development and being revised to include these new activities. The updated plan will be submitted by February 2011 following the guidelines outlined in the extension granted to all awardees.

### 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

11i. Planning Worksheet

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?

NA

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

NA

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

NA

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

Juan E Rodriguez de Hostos

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

787-721-7000

12d. Email Address

jerodriguez@fortaleza.gobierno.pr

12b. Signature of Authorized Certifying Official

Submitted Electronically

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

02-17-2011