

U.S. DEPARTMENT OF COMMERCE

Performance Progress Report

2. Award Or Grant Number

15-50-M09057

4. Report Date (MM/DD/YYYY)

07-26-2012

1. Recipient Name

Hawaii Department of Commerce and Consumer Affairs

6. Designated Entity On Behalf Of:

N/A

3. Street Address

335 Merchant Street,

8. Final Report?

Yes

No

9. Report Frequency

Quarterly

Semi Annual

Annual

Final

5. City, State, Zip Code

Honolulu, HI 96813-2921

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

01-01-2010

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

12-31-2014

7b. Reporting Period End Date:

06-30-2012

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

**Hawaiian Telcom Communications, Inc. & Oceanic Time Warner Cable: Last-mile and middle-mile facility capacity and more specifically backhaul from the facilities has been deemed proprietary. Further, providers maintain that they do not have information documented in a form that they would be able to easily provide. – No information regarding this has been shared to-date by these providers. By letter dated April 13, 2011, DCCA asked providers to supply broadband service information at the Tax Map Key (TMK/ Parcel) level. No response was received. Legislation was passed in the 2012 Session that requires providers to submit data to DCCA on where service cannot be provided, aggregated as a percentage at the census block level. The first provider reports are due in March 2013, but DCCA has asked providers by letter dated May 31, 2012, to assist the State by supplying the data at this time.

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

Data was obtained by working with Providers (phone conference calls and email) to get the latest information at the most detailed level possible. The team furnished Providers with a data request including the latest table specifications via email that included the specific information needed for the project. Three (3) Providers submitted address level detail (TW Telecom Holdings, Inc., MOBI PCS and TrexBroadband, Inc.) and one Provider submitted Tax Map Key (TMK/Parcel) level detail (Sandwich Isles Communications, Inc.). All other terrestrial broadband Providers maintained census block level detail. Wireless providers submitted RF propagation polygons illustrating coverage.

Broadband coverage data for Hawaiian Telcom Communications has been re-extrapolated as a one-mile buffer from each Central Office location. For every other provider not mentioned above, the DCCA has obtained census block level information and coverage footprints from the wireless providers. Since the data is being provided at the census block level or via a coverage footprint from wireless providers, exact levels of service provided within these boundaries has been limited to a single tier of service per census block or wireless footprint. TW Telecom has furnished customer addresses which have been geocoded and inserted into the FCC file geodatabase model as appropriate.

The project team is requesting TMK and address level detail from all Providers prior to the next data submission. For wireless providers, the project team is requesting more detailed RF propagation maps, tower locations, and greater detail on wireless service coverage and technology. Further, the project team will be analyzing and adjusting existing census block data to fit within TMK boundaries in an effort to increase the accuracy of the stated data coverage areas for use on the State's broadband website and for planning purposes.

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

- **Coverage Verification via Website.
- **Provider Verification via Website.
- **Provider Verification via Map Products.
- **Speed Test Verification via Website.
- **Speed Test Verification via FCC Ookla/MLabs.
- **CAI Verification by Telephone.
- **CAI Verification by External Data Source Comparison.

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 most recent iteration of updated and verified mapping data was submitted to NTIA on April 1, 2012 in accordance with the latest FCC/NTIA broadband data model.

- **Coverage Verification via Website – In Progress.
- **Provider Verification via Map Products – In Progress.
- **Speed Test Verification via Website – In Progress.
- **Speed Test Verification via FCC Ookla/MLabs – In Progress.
- **CAI Verification by Telephone – In Progress.
- **CAI Verification by External Data Source Comparison – In Progress.

Note: These verification activities and direct updates from providers are anticipated to continue through the next data delivery date of October 1, 2012.

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

**Provider Verification via Website: Providers will also be able to access the maps of their data through a secure portal on the website. – Begin January 1, 2011, Complete September 1, 2012 (completion date was changed since the team had to work through some security architecture issues).

Note: The verification activities listed above and direct updates from providers are anticipated to continue through the next data delivery date on or before October 1, 2012.

Staffing

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

The project has resulted in the retention of the jobs named below from 04/01/2012 to 06/30/2012 (approximations based on 520 hours per quarter): This quarter, the following jobs were retained: Technical Project Manager #1-Mapping (1.00 FTE), Technical Project Manager #2-Planning (0.73 FTE), Data Processor/Software Engineer (0.87 FTE), Systems Administrator (0.93 FTE), Planning Analyst #1 (1.00 FTE), Planning Analyst #2 (0.05 FTE), Web Designer/Application Developer (0.45 FTE), Software Engineer (0.76 FTE), and Planning Consultant (0.05 FTE), for a total of 5.84 FTE.

Subcontract - UH/PDC

Technical Project Manager #1-Mapping 1.00 FTE
Technical Project Manager #2-Planning 0.73 FTE
Data Processor/Software Engineer 0.87 FTE

Systems Administrator 0.93 FTE
 Planning Analyst #1 1.00 FTE
 Planning Analyst #2 0.05 FTE

Subcontract - Bump Networks, LLC (Vendor)
 Web Designer/Application Developer 0.45 FTE

Subcontract - Referentia Systems, Inc. (Vendor)
 Software Engineer 0.76 FTE

Subcontract - RHD Consulting, LLC (Vendor)
 Planning Consultant 0.05 FTE

Total 5.84 FTE

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?

The project is fully staffed.

10n. Staffing Table

Job Title	FTE %	Date of Hire
UH/PDC - Technical Project Manager #1 (existing, 1.00 FTE, Q2-2012)	100	01/01/2010
UH/PDC - Technical Project Manager #2 (existing, 0.73 FTE, Q2-2012)	73	01/01/2010
UH/PDC - Data Processor/Software Engineer (existing, 0.87 FTE, Q2-2012)	87	01/01/2010
UH/PDC - Systems Administrator (existing, 0.93 FTE, Q2-2012)	93	01/01/2010
UH/PDC - Planning Analyst #1 (existing, 1.00 FTE, Q2-2012)	100	01/01/2010
UH/PDC - Planning Analyst #2 (existing, 0.05 FTE, Q2-2012)	5	01/01/2010
Bump Networks LLC - Web Designer/Application Developer (existing, 0.45 FTE, Q2-2012)	45	10/01/2010
Referentia Systems Inc. - Software Engineer (existing, 0.76 FTE, Q2-2012)	76	11/16/2010
RHD Consulting LLC - Planning Consultant (existing, 0.05 FTE, Q2-2012)	5	01/01/2010

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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
University of Hawaii Pacific Disaster Center (UH/PDC)	Technical Project Management, System Administration, Data Processing/Software Engineering, Planning Analysis, GIS Analysis, Database Administration, Broadband/IT Advisory, Technical Assistance Advisory	N	Y	01/13/2010	12/31/2014	3,833,154	0
Squire Sanders (US) LLP	Washington D.C. Legal Services for DCCA	N	Y	01/13/2010	12/31/2014	0	100,800

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Funding

10p. How much Federal funding has been expended as of the end of the last quarter? \$2,270,667 10q. How much Remains? \$2,079,273

10r. How much matching funds have been expended as of the end of last quarter? \$791,077 10s. How much Remains? \$296,408

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	\$439,200	\$439,200	\$0	\$142,630	\$142,630
Personnel Fringe Benefits	\$0	\$153,720	\$153,720	\$0	\$49,913	\$49,913
Travel	\$17,250	\$4,000	\$21,250	\$7,903	\$6,949	\$14,852
Equipment	\$342,780	\$0	\$342,780	\$83,459	\$0	\$83,459
Materials / Supplies	\$156,756	\$3,080	\$159,836	\$134,548	\$3,300	\$137,848
Subcontracts Total	\$3,833,154	\$0	\$3,833,154	\$2,044,757	\$100,800	\$2,145,557
Subcontract #1	\$3,833,154	\$0	\$3,833,154	\$2,044,757	\$0	\$2,044,757
Subcontract #2	\$0	\$0	\$0	\$0	\$100,800	\$100,800
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	\$487,485	\$487,485	\$0	\$487,485	\$487,485
Total Direct Costs	\$4,349,940	\$1,087,485	\$5,437,425	\$2,270,667	\$791,077	\$3,061,744
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$4,349,940	\$1,087,485	\$5,437,425	\$2,270,667	\$791,077	\$3,061,744
% Of Total	80	20	100	74	26	100

Hardware / Software10u. Has the project team purchased the software / hardware described in the application? Yes No

10v. If yes, please list

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

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

**Note: The DCCA project team is continually procuring hardware and software to support the project. The hardware and software required to date has been purchased within the stated budget, mostly installed and configured in Q4-2010 through Q2-2012. Some of the costs may be reflected in the next quarterly (Q3-2012) report.

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

10y. If yes, please list

**InfoUSA: The project team has purchased InfoUSA data to verify the completeness of the CAI database. This data was purchased in Q4-2010 and within stated budget and used in Q1-2011. – Cost was \$1,440 and provides for the download of up to 12,000 records.

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

10aa. If yes, please list

367 Schools – K through 12

56 Libraries

212 Medical/Healthcare

95 Public Safety

44 Universities, Colleges, other Post-Secondary

532 Other Community Support – Non-governmental (Hotels)

The data was collected from various State databases (i.e. Schools, Libraries, Public Safety), and from InfoUSA data downloads. Data was verified by personal telephone calls and information collected from websites. No surveys were distributed. The project team plans to increase the number of State facilities, restaurant lounges, malls and coffee shops with advertised free Wi-Fi by the October 1, 2012 data deliverable, as well as continue with telephone verification to obtain more information from CAI's. Thus far, all CAI's contacted have been very cooperative in providing information.

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

****NDA Execution with Providers:** DCCA has encountered challenges in fully executing NDAs with providers. Subsequently, throughout this term, DCCA has experienced some delays in obtaining necessary information. However, to-date DCCA has been able to process data representing the overwhelming majority of broadband providers in the State of Hawaii. – DCCA continues to overcome these challenges through cooperation between the parties and improving process expediency. There is currently one (1) NDA that has not yet been fully executed (Clearwire Corp.). Eleven (11) NDA's have been fully executed (Oceanic Time Warner Cable, Hawaiian Telcom Communications, Inc., TW Telecom Holdings, Inc., Verizon Communications, Inc., Sprint Nextel, AT&T Inc., MOBI PCS, T-Mobile USA, Inc., Sandwich Isles Communications, Inc., TrexBroadband, Inc. dba/Bluestreak Broadband, and Pacific Light Net, Inc. dba/Wavcom Solutions,).

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

Project is on schedule. Data to-date has adhered to the latest FCC file geodatabase model for the project. Census 2010 data has been processed.

A Detailed Project plan was approved by NTIA on May 18, 2011 which augments the project's mapping, planning and supplemental activities pursuant to DCCA's SBDD Supplemental Application submitted on July 1, 2010 and approved/amended on September 28, 2010 (Amendment No. 4).

DCCA sent a letter on April 13, 2011 to Oceanic Time Warner Cable and Hawaiian Telcom Communications, Inc. to provide service levels at the Tax Map Key (TMK/Parcel) level in an effort to make the data more accurate.

DCCA, in conjunction with the Office of the Governor, legislation has been approved which requires more detailed data from the providers.

DCCA continues to meet with stakeholders to address broadband deployment and adoption issues, and has introduced legislation to support expedited deployment.

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

****Planning Scope Approved:** The Program Office approved the Planning Narrative and Budget for the State of Hawaii and Special Award Condition #17 was completed.– May 4, 2010 – Complete.

****Planning Consultant Engaged:** The DCCA project team has negotiated a subcontract with its planning consultant RHD Consulting, LLC. – August 23, 2010 – Complete.

****Detailed Project Plan:** Pursuant to NTIA grant requirements, the revised Final Recipient Project Plan and Budget dated April 26, 2011 was submitted for NTIA review and approval – Approved by NTIA on May 18, 2011.

****Information Gathering for 5-Year Master Plan:** Information gathering and analysis has been completed according to the approved work plan. – July 1, 2011 – Complete.

****First Draft of 5-Year Master Plan:** Writing of the initial draft of the 5-Year Master Plan is complete. – December 31, 2011 – Complete.

Additional Planning Information

11j. Are there any additional project milestones or information that has not been included?

**It was anticipated in the Detailed Project Plan that Initial Planning activities would conclude in Q4-2011; and that the State Capacity Building Project and Technical Assistance Project would subsequently begin in Q4-2011. Currently, the Initial Planning activities (including the Final 5-Year Strategic Master Plan) will be finalized before Q4-2012 (with NTIA approval of extension request).

**The State Capacity Building Project and Technical Assistance projects have not yet begun (awaiting the final deliverable from the Initial Planning activities - Five-Year Master Plan). These projects will be run in parallel with the State's "Hawaii Broadband Initiative" (officially launched by Governor Neil Abercrombie on August 23, 2011 with the goal of providing affordable, ultra high-speed Internet access for all of Hawaii's citizens).

**Applicant Matching Funds Activity: DCCA to Maintain Communication with Initial Planning Committee Members and other Project Stakeholders; Work on Legislation Supporting Streamlined Permitting; Hire Technical Staff Supporting Broadband in Hawaii.

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

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

**Request Extension of Planned Completion Date: Please see section 11b. above for full explanation.

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

**Pursuant to an email from Federal Program Officer, Brian Gibbons (received on 05/16/12) regarding comments on this Q1-2012 PPR and in a follow-up telephone discussion with Mr. Gibbons (on 05/21/12), it was recommended to consolidate the information presented in items 10o. Subcontracts Table, and 10t. Budget Worksheet, in an effort to streamline the amount of detailed information reported on an ongoing basis. Since DCCA has subcontracted the entirety of its award to University of Hawaii/Pacific Disaster Center (UH/PDC) as the sub-recipient and prime contractor, all other subcontracts for services are effectively deducted from UH/PDC's contractual budget. The budget figures provided for subcontracts under UH/PDC have been somewhat agile, which may represent a departure from how subcontracts are typically reviewed. Pursuant to the recommendations from the Program Office, the project team has revised this Q2-2012 PPR to be more consistent with the manner in which other grantees are reporting budget performance on subcontracts. UH/PDC is listed as Subcontract #1 with the full allocation of funds awarded under that category. Subsequently, all subcontractors to UH/PDC have been removed from this Q1-2012 PPR and instead, are listed in an attached Excel spreadsheet which details all UH/PDC subcontracts, their budget allocations and performance. Also, listed under Subcontract #2, DCCA provided \$100,800 in unanticipated matching funds not previously recorded in SF424A. The additional matching funds were expended for Washington D.C. legal counsel in support of Hawaii's broadband activities and paid for by State funds in 2011. The project team plans to submit a revised SF424A shortly to properly reallocate amounts shown in matching funds.

**In support of the request for extension noted in item 11b. above, and following guidance provided by the Program Office, the project team plans to submit a descriptive narrative and revised detailed project plan shortly with an AAR.

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

Keone Kali

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

808-891-7917

12d. Email Address

kkali@pdc.org

12b. Signature of Authorized Certifying Official

Submitted Electronically

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

07-30-2012