U.S. DEPARTMENT OF COMMERCE	2. Award Or Grant Number
	15-50-M09057

Performance Progress Report

	4. Report Date (MM/DD/YYYY)
	10-24-2011

1. Recipient Name	6. Designated Entity On Behalf Of:
Hawaii Department of Commerce and Consumer Affairs	N/A

3. Street Address	8. Final Report?	9. Report Frequency
335 Merchant Street,	○ Yes	◉ Quarterly
		○ Semi Annual
5. City, State, Zip Code	◉ No	○ Annual
Honolulu, HI 96813-2921		○ 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:
01-01-2010	12-31-2014	09-30-2011	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

**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. DCCA is working to compel these Providers to furnish more detailed information. On April 13, 2011, DCCA issued a Broadband Service Information request on official State letterhead to obtain service information at the Tax Map Key (TMK/Parcel) level. Specifically, this information would reflect whether broadband service is "available" at a property/parcel pursuant to the definition in the NOFA (July 8, 2009).

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 extrapolated as a three-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 Q3 Supplemental Answers Document.

10g. Have you initiated verification activities? ⦿Yes ◯No
10h. If yes, please describe the status of your activities

The project team continues to verify provider coverage areas and broadband speed claims as well as to collect data from other providers as they are identified.

The most recent iteration of updated and verified mapping data was submitted to NTIA on October 1, 2011 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 April 1, 2012.

For more details, please refer to the Q3 Supplemental Answers Document.

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 February 1, 2012 (completion date has been 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 April 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 07/01/2011 to 09/30/2011 (approximations based on 520 hours per quarter): This quarter, the following jobs were retained: Technical Project Manager #1-Mapping (1.00FTE), Technical Project Manager #2-Planning (0.91FTE), Systems Administrator (0.94 FTE), Data Processor/Software Engineer #1 (1.00 FTE), Data Processor/Software Engineer #2 (0.88 FTE), Planning Analyst #1 (1.00 FTE), Planning Analyst #2 (0.27 FTE), Software Engineer (0.03 FTE), and Planning Consultant (0.12 FTE), for a total of 6.15 FTE.

Subcontract - UH/PDC
Technical Project Manager #1-Mapping 1.00 FTE
Technical Project Manager #2-Planning 0.91 FTE
Systems Administrator   0.94 FTE
Data Processor/Software Engineer #1 1.00 FTE
Data Processor/Software Engineer #2 0.88 FTE
Planning Analyst #1   1.00 FTE
Planning Analyst #2   0.27 FTE

Subcontract - Referentia Systems, Inc. (Vendor)
Software Engineer   0.03 FTE

Subcontract - RHD Consulting, LLC (Vendor)
Planning Consultant   0.12 FTE

Total   6.15 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?
As a result of the overall SBDD project for five (5) years, the project expects to retain 28.64 FTE (5-year total). The number of FTE's reported to ARRA (noted in item 10j above) reflects work performed in Q3-2011, predominantly in the mapping and verification and planning elements in the amount of 6.15 FTE. Please note that in the staffing table below, Technical Project Manager #1 is focused on the mapping and verification elements, Technical Project Manager #2 is focused on the planning elements.

10n. Staffing Table

Job Title	FTE %	Date of Hire
UH/PDC - Technical Project Manager #1 (existing, 1.0 FTE, Q3-2011)	100	01/01/2010
UH/PDC - Technical Project Manager #2 (existing, 0.91 FTE, Q3-2011)	91	01/01/2010
UH/PDC - System Administrator #1 (existing, 0.94 FTE, Q3-2011)	94	01/01/2010
UH/PDC - Data Processor/Software Engineer #1 (existing, 1.00 FTE, Q3-2011)	100	01/01/2010
UH/PDC - Data Processor/Software Engineer #2 (existing, 0.88 FTE, Q3-2011)	88	01/01/2010
UH/PDC - Planning Analyst #1 (existing, 1.00 FTE, Q3-2011)	100	01/01/2010
UH/PDC - Planning Analyst #2 (existing, 0.27 FTE, Q3-2011)	27	01/01/2010
Referentia Systems Inc. - Software Engineer #1 (existing, 0.03 FTE, Q3-2011)	3	11/16/2010
RHD Consulting LLC - Planning Consultant #1 (existing, 0.12 FTE, Q3-2011)	12	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	3,117,769	0
BroadMap, LLC	Software Processing,GIS Database Modeling, Verification	N	Y	01/13/2010	08/06/2010	250,549	0
Referentia Systems Inc.	Software/Security Systems Development	N	Y	11/16/2010	04/30/2012	124,973	0
Bump Networks, LLC	Web Application Design/ Content Management System/Application Integration/ Crowdsourcing Tools/ Multimedia Campaign and Outreach/Mobile Platform Development	N	Y	10/01/2010	01/30/2011	242,375	0
RHD Consulting, LLC	State Broadband Planning Consultant	N	Y	01/13/2010	12/31/2011	75,000	0
IBM Corporation	Servers and Storage Implementation Support	N	Y	08/30/2010	02/15/2011	5,144	0
ESRI, Inc.	ESRI BBStat Software Implementation Support	N	Y	10/11/2010	02/15/2011	5,213	0
Scene, LLC - Ookla	Ookla Speed Test Software Implementation Support	N	Y	04/01/2010	06/30/2010	1,800	0
Betis Group, Inc.	Network Configuration Implementation Support	N	Y	06/29/2011	12/15/2011	8,745	0
Latitude Geographics Group, Ltd.	ESRI ArcGIS Server Implementation Support	N	Y	06/29/2011	12/15/2011	1,586	0

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Funding

10p. How much Federal funding has been expended as of the end of the last quarter? $1,564,658   10q. How much Remains? $2,785,282

10r. How much matching funds have been expended as of the end of last quarter? $487,485   10s. How much Remains? $600,000

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	$0	$0
Personnel Fringe Benefits	$0	$153,720	$153,720	$0	$0	$0
Travel	$17,250	$4,000	$21,250	$2,334	$0	$2,334
Equipment	$342,780	$0	$342,780	$65,459	$0	$65,459
Materials / Supplies	$156,756	$3,080	$159,836	$112,227	$0	$112,227
Subcontracts Total	$3,833,154	$0	$3,833,154	$1,384,638	$0	$1,384,638
Subcontract #1	$3,117,769	$0	$3,117,769	$828,038	$0	$828,038
Subcontract #2	$250,549	$0	$250,549	$250,549	$0	$250,549

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Subcontract #3	$124,973	$0	$124,973	$27,268	$0	$27,268
Subcontract #4	$242,375	$0	$242,375	$242,375	$0	$242,375
Subcontract #5	$97,488	$0	$97,488	$36,408	$0	$36,408
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	$1,564,658	$487,485	$2,052,143
Total Indirect Costs	$0	$0	$0	$0	$0	$0
Total Costs	$4,349,940	$1,087,485	$5,437,425	$1,564,658	$487,485	$2,052,143
% Of Total	80	20	100	76	24	100

Hardware / Software

10u. 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 Q3 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 Q3-2011. Some of the costs will be reflected in the next quarterly (Q4-2011) report.

For more details, please refer to the Q3 Supplemental Answers Document.

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

The baseline Community Anchor Institutions database delivered on October 1, 2011 is being amended, updated and verified. The Community Anchor Institutions database was composed of 1173 points that included:

 367 Schools – K through 12
  56 Libraries
 212 Medical/Healthcare
  95 Public Safety
  44 Universities, Colleges, other Post-Secondary
 399 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 April 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 are currently three (3) NDA's that have not yet been fully executed (Clearwire Corp., Sprint/Nextel, and Pacific Light Net, Inc. dba/Wavecom Solutions). Nine (9) NDA's have been fully executed (Oceanic Time Warner Cable, Hawaiian Telcom Communications, Inc., TW Telecom Holdings, Inc., Verizon Communications, Inc., AT&T Inc., MOBI PCS, T-Mobile USA, Inc., Sandwich Isles Communications, Inc., and TrexBroadband, Inc.).

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.

The Planning portion of the project is underway. Planning information has been gathered and analyzed to support the development of a 5-year Master Plan for broadband adoption and advancement as critical infrastructure in the State.

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 Communciations, Inc. to provide service levels at the Tax Map Key (TMK/Parcel) level in an effort to make the data more accurate.

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.

**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 underway. – December 31, 2011 – In Progress.

**Detailed Project Plan: Pursuant to NTIA grant requirements, and subsequent to the submitted Recipient Project Plan and Budget dated February 28, 2011 with requested edits received from Gabrielle Sivage of NTIA on March 31, 2011; and the Updated Recipient Project Plan and Budget dated April 13, 2011 with requested edits received from Gabrielle Sivage of NTIA on April 22, 2011, 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.

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

**None: Thus far, the DCCA project team has not encountered any challenges or obstacles related to the Planning project plan.

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

Per NTIA guidance, a Detailed Project plan was submitted and approved to support augmenting 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).

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?

**It is anticipated in the Detailed Project Plan that Initial Planning activities will conclude in Q4-2011; and that the State Capacity Building Project and Technical Assistance Project will subsequently begin in Q4-2011.

**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 Q3 Supplemental Answers Document.

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

**None: Thus far, the DCCA project team has not encountered any challenges or obstacles related to the Planning project plan.

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 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) 10-28-2011