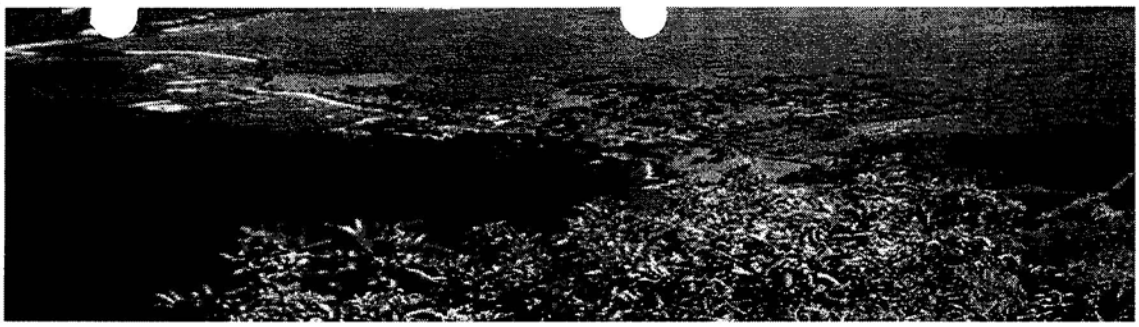


STATE OF HAWAII

Supplemental Application

Broadband Data & Development Program

Prepared by

Hawaii Department of Commerce and Consumer Affairs (DCCA)

In Response to

DEPARTMENT OF COMMERCE

State Broadband Data and Development Grant Program: Supplemental Application

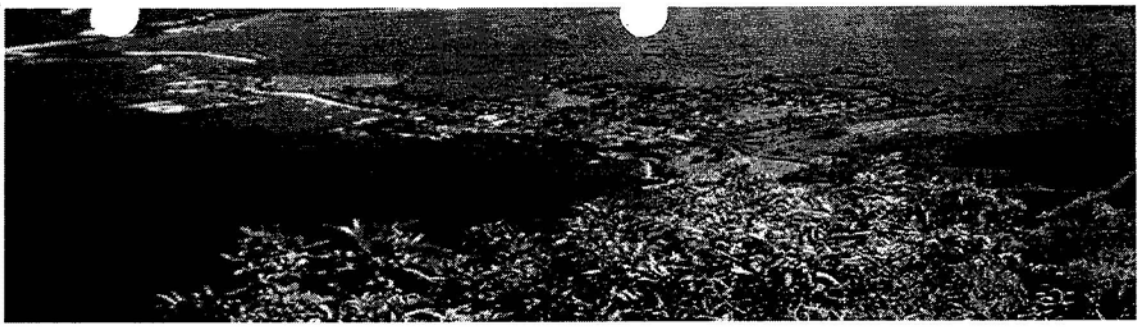
July 1, 2010

STATE OF HAWAII

Supplemental Application

Broadband Data & Development Program

Table of Contents



STATE OF HAWAII

Supplemental Application

Broadband Data & Development Program

Project Abstract

July 1, 2010

State of Hawaii Broadband Data and Development Program: Project Abstract

Activities Approved:

Pursuant to Award 15-50-M09057, the State of Hawaii's Department of Commerce and Consumer Affairs ("DCCA") was granted $1.9 million federal funds to develop an interactive online map that can be used by consumers to identify the availability, speed and location of broadband services in the State of Hawaii. The grant includes approximately $1.4 million in federal funds for broadband data collection and mapping activities over a two-year period, and $500,000 in federal funds for broadband adoption activities over a five-year period.

DCCA's currently funded activities under its mapping project include: collecting broadband data from major Providers in the State; mapping the results, performing spatial and demographic analysis of broadband coverage and availability; verifying the accuracy of the data; and developing an internet-based mapping application for consumers. DCCA's currently funded activities under its planning project include forming a Planning Committee to oversee the development of a 5-Year Master Plan for broadband adoption and advancement as Critical Infrastructure.

Projects Proposed:

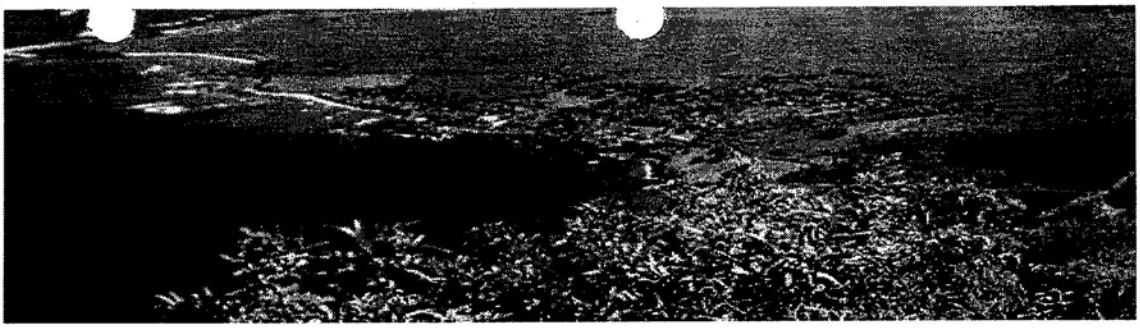
DCCA has requested additional funding under the State Broadband Data and Development Program to complete its data collection and mapping activities. DCCA has also proposed two new projects aimed at increasing broadband penetration in the State – a State Broadband Capacity Building project and a Technical Assistance project.

The State Broadband Capacity Building Project will strive to identify gaps in broadband service throughout the State and reduce barriers to broadband adoption. A Broadband Committee will be established under the Project to develop a State plan for expanding broadband and information technology services throughout Hawaii. Once the State plan is complete, the Broadband Committee will seek to prioritize and guide the implementation and adoption of broadband as Critical Infrastructure in strategic locations. A Work Group will also be established under the State Broadband Capacity Building Project to develop procedures for streamlined permitting functions applicable to the development of broadband services and to implement policies to increase the sharing of infrastructure used to deploy broadband services.

The Technical Assistance Project seeks to implement programs that will increase access to broadband services and digital literacy through the creation of local technology planning teams and computer ownership and Internet access programs. It is the aim of the Technical Assistance Project to implement policy at the State and local levels that will support a minimum broadband technology requirement in all building/community development projects and that will enhance computer/Internet access, disaster management capabilities and emergency services/communications with the public.

Requested Budget:

DCCA requests approval of **$2,400,000** to accommodate $1,700,000 for three (3) additional years of data collection and mapping and $700,000 for four (4) years to implement the State Broadband Capacity Building and Technical Assistance projects.



STATE OF HAWAII

Supplemental Application

Broadband Data & Development Program

Revised Form 424

July 1, 2010

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424 Version 02

*1. Type of Submission:	*2. Type of Application	* If Revision, select appropriate letter(s)
☐ Preapplication	☐ New	A. Increase Award
☒ Application	☐ Continuation	*Other (Specify)
☐ Changed/Corrected Application	☒ Revision	Proposed new award

3. Date Received: 4. Applicant Identifier:

5a. Federal Entity Identifier: *5b. Federal Award Identifier: 15-50-M09057

State Use Only:

6. Date Received by State: 7. State Application Identifier:

8. APPLICANT INFORMATION:

*a. Legal Name: Hawaii Department of Commerce and Consumer Affairs

*b. Employer/Taxpayer Identification Number (EIN/TIN): 99-0319357

*c. Organizational DUNS: 809935406

d. Address:

*Street 1: 335 Merchant Street
Street 2:
*City: Honolulu
County:
*State: Hawaii
Province:
*Country: United States
*Zip / Postal Code 96813-2921

e. Organizational Unit:

Department Name: Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: Mr. *First Name: Clyde
Middle Name:
*Last Name: Sonobe
Suffix:

Title: Administrator, Hawaii Department of Commerce and Consumer Affairs

Organizational Affiliation:

*Telephone Number: 808-586-8395 Fax Number:

*Email: Clyde.Sonobe@dcca.hawaii.gov

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424 Version 02

***9. Type of Applicant 1: Select Applicant Type:**

A.State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

*Other (Specify)

***10 Name of Federal Agency:**

Department of Commerce, National Telecommunications and Information Administration

11. Catalog of Federal Domestic Assistance Number:

11.558

CFDA Title:

State Broadband Data and Development Grant Program

***12 Funding Opportunity Number:**

0660-ZA29

*Title:

State Broadband Data and Development Grant Program

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

***15. Descriptive Title of Applicant's Project:**

State of Hawaii Broadband Data Mapping and Development Project

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424 Version 02

16. Congressional Districts Of:

*a. Applicant: 1 *b. Program/Project: 1 & 2

17. Proposed Project:

*a. Start Date: 1/13/2010 *b. End Date: 12/31/2014

18. Estimated Funding ($):

*a. Federal	2,400,000.00
*b. Applicant	600,000.00
*c. State	
*d. Local	
*e. Other	
*f. Program Income	
*g. TOTAL	3,000,000.00

***19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on _____

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☒ c. Program is not covered by E. O. 12372

***20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)**

☐ Yes ☒ No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U. S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions

Authorized Representative:

Prefix: Mr. *First Name: Clyde

Middle Name:

*Last Name: Sonobe

Suffix:

*Title: Administrator, Hawaii Department of Commerce and Consumer Affairs

*Telephone Number: 808-586-8395 Fax Number:

* Email: Clyde.Sonobe@dcca.hawaii.gov

*Signature of Authorized Representative: Clyde S. Sonobe *Date Signed: 7/1/10

Application for Federal Assistance SF-424 Version 02

***Applicant Federal Debt Delinquency Explanation**

The following should contain an explanation if the Applicant organization is delinquent of any Federal Debt.

OMB Approval No. 0348-0044

BUDGET INFORMATION - Non- Construction Programs

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non- Federal (f)	Total (g)
1. State Broadband Data and Development Grant Program (SBDD)	11.558	$ 0	$ 0	$ 2,400,000	$ 600,000	$ 3,000,000
2.		$	$	$	$	$
3.		$	$	$	$	$
4.		$	$	$	$	$
5. TOTALS		$ 0	$ 0	$ 2,400,000	$ 600,000	$ 3,000,000

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) State Broadband Data and Development Grant Program	(2) Non- Federal	(3)	(4)	
a. Personnel	$ 0	$ 439,200	$	$	$ 439,200
b. Fringe Benefits	$ 0	$ 153,720	$	$	$ 153,720
c. Travel	$ 10,000	$ 4,000	$	$	$ 14,000
d. Equipment	$ 259,000	$ 0	$	$	$ 259,000
e. Supplies	$ 26,000	$ 3,080	$	$	$ 29,080
f. Contractual	$ 2,105,000	$ 0	$	$	$ 2,105,000
g. Construction	$ 0	$ 0	$	$	$ 0
h. Other	$ 0	$ 0	$	$	$ 0
i. Total Direct Charges *(sum of 6a -6h)*	$ 2,400,000	$ 600,000	$ 0	$ 0	$ 3,000,000
j. Indirect Charges	$ 0	$ 0	$ 0	$ 0	$ 0
k. TOTALS *(sum of 6i and 6j)*	$ 2,400,000	$ 600,000	$ 0	$ 0	$ 3,000,000
7. Program Income	$	$	$	$	$

SECTION C - NON- FEDERAL RESOURCES

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS
8. State Broadband Data and Development Grant Program (SBDD)	$ 155,520	$ 444,480	$	$ 600,000
9.	$	$	$	$
10.	$	$	$	$
11.	$	$	$	$
12. TOTALS *(sum of lines 8 and 11)*	$ 155,520	$ 444,480	$ 0	$ 600,000

SECTION D - FORECASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	$	$	$	$	$
14. Non- Federal	$	$	$	$	$
15. TOTAL *(sum of lines 13 and 14)*	$	$	$	$	$

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT

(a) Grant Program	FUTURE FUNDING PERIODS (Years)			
	(b) First	(c) Second	(d) Third	(e) Fourth
16.	$	$	$	$
17.	$	$	$	$
18.	$	$	$	$
19.	$	$	$	$
20. TOTALS *(sum of lines 16 -19)*	$	$	$	$

SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges:	22. Indirect Charges:
$3,000,000	$0

23. Remarks

OMB Approval No. 0348-0040

ASSURANCES - NON-CONSTRUCTION PROGRAMS

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

Note: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management, and completion of the project described in this application.

2. Will give the awarding agency, the Comptroller General of the United States, and if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.

5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. ∋∋4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).

6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. ∋∋1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. ∋794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. ∋∋ 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) ∋∋ 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. ∋∋ 290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. ∋ 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

7. Will comply, or has already complied, with the requirements of Titles II and III of the uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

8. Will comply, as applicable, with the provisions of the Hatch Act (5 U.S.C. ∋∋1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. ∋∋276a to 276a-7), the Copeland Act (40 U.S.C. ∋276c and 18 U.S.C. ∋∋874) and the Contract Work Hours and Safety Standards Act (40 U.S.C. ∋∋ 327-333), regarding labor standards for federally assisted construction subagreements.

10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is $10,000 or more.

11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. ∋∋1451 et seq.); (f) conformity of Federal actions to State (Clear Air) Implementation Plans under Section 176(c) of the Clear Air Act of 1955, as amended (42 U.S.C. ∋∋7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended, (P.L. 93-523); and (h) protection of endangered species under the Endangered Species Act of 1973, as amended, (P.L. 93-205).

12 Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. ∋∋1721 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. ∋470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. ∋∋469a-1 et seq.).

14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.

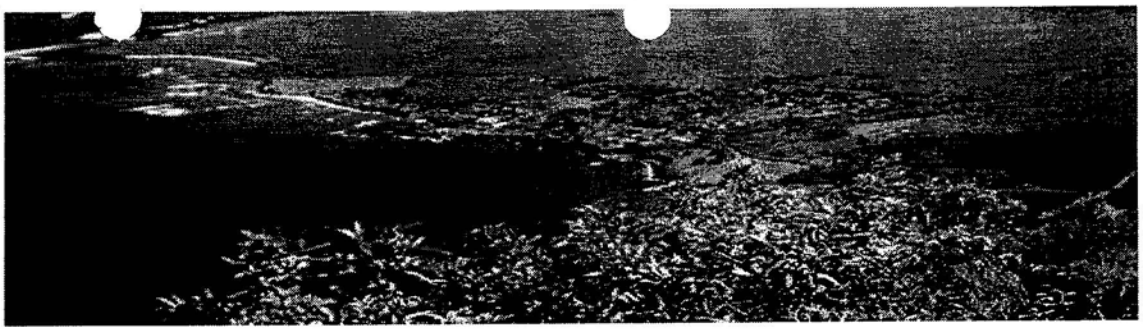
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. ∋∋2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.

16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. ∋∋4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.

17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, AAudits of States, Local Governments, and Non-Profit Organizations.≅

18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE
Clyde S. Sonobe	Administrator, Hawaii Department of Commerce and Consumer Affairs
APPLICANT ORGANIZATION	DATE SUBMITTED
Hawaii Department of Commerce and Consumer Affairs	7/1/10



STATE OF HAWAII

Supplemental Application

Broadband Data & Development Program

Detailed Budget

July 1, 2010

[illegible]	HI Department of Commerce and Consumer Affairs (DCCA)

[illegible]

[illegible]

[illegible]	Federal	State	Total
Personnel	0	0	$0
Fringe Benefits	0	0	$0
Travel	7,250	0	$7,250
Equipment	83,780	0	$83,780
Supplies	130,756	0	$130,756
Contractual	1,728,154	0	$1,728,154
	0	*0*	*0*
Other	0	487,485	$487,485
Total Direct Costs	[illegible]	[illegible]	[illegible]
Total Indirect Costs	$0	$0	$0
Total Budget	[illegible]	[illegible]	[illegible]
% Federal Share	80.00%		
% Applicant Share		20.00%	

[illegible] complete the other columns.

[illegible]	Federal	State	Total
Personnel Salaries			
Fringe Benefits			
Travel	[illegible]		
Equipment	[illegible]		
Supplies	[illegible]	[illegible]	[illegible]
Contractual	[illegible]		
Other			
Total Direct Costs	[illegible]	[illegible]	[illegible]
Total Indirect Costs			
Total Budget	$2,400,000	[illegible]	[illegible]
% Federal Share			
% Applicant Share			

Latest SF-424A as amended June 30, 2010

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]						
N/A	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
[redacted]						
[redacted]						
N/A	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
[redacted]						
[redacted]						
[redacted]	2,500	2,500	2,500	2,500	[redacted]	
[redacted]	0	0	0	0	[redacted]	
[redacted]						
[redacted]						
Additional Hardware/Software (Local Servers, Storage, Content Mgmt)	150,000	25,000	25,000	25,000	[redacted]	
Cloud Hosting/Bandwidth Services for Interstate Speed Tests	10,000	8,000	8,000	8,000	[redacted]	
[redacted]						
[redacted]						
Commercial Data Verification Subscription - InfoUSA	1,500	1,500	1,500	1,500	[redacted]	
Other Software Licensing/Maintenance - ESRI Broadbandstat	5,000	5,000	5,000	5,000	[redacted]	
[redacted]						
[redacted]						
[1] Data Collection, Integration, Verification, Display (UH/PDC)	0	375,000	375,000	375,000	[redacted]	
[2] Website Development and Ongoing Maintenance (UH/PDC)	85,000	65,000	65,000	65,000	[redacted]	
[3] State Capacity Building (UH/PDC)	125,000	125,000	100,000	100,000	[redacted]	
[4] Technical Assistance (UH/PDC)	70,000	60,000	60,000	60,000	[redacted]	
[redacted]						
[redacted]						
[redacted]	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
	0	0	0	0	[redacted]	
[redacted]						
[redacted]						
[redacted]						
[redacted]						

	20,400	20,400	20,400	20,400	$81,600	
	8,400	8,400	8,400	8,400	$33,600	
(3) State Broadband Associate	72,000	36,000	0	0	$108,000	
(4) State Broadband Associate	72,000	36,000	0	0	$108,000	
(5) State Broadband Associate	72,000	36,000	0	0	$108,000	
	7,140	7,140	7,140	7,140	$28,560	
	2,940	2,940	2,940	2,940	$11,760	
(3) State Broadband Associate	25,200	12,600	0	0	$37,800	
(4) State Broadband Associate	25,200	12,600	0	0	$37,800	
(5) State Broadband Associate	25,200	12,600	0	0	$37,800	
	2,000	1,000	500	500	$4,000	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	0	0	0	$0	
	3,080	0	0	0	$3,080	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	*0*	*0*	*0*	*$0*	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	0	0	0	$0	
	0	0	0	0	$0	

[redacted]

If Applicable, Copy and Paste Any Budgets from Your Proposed Contractors

Please make sure to check your print settings for this page. Make sure that the page will print 1 page wide (you can have it as many pages long as you like).

MOU #1 with University of Hawaii/Pacific Disaster Center	**$1,949,940**
MOU #2 with University of Hawaii/Pacific Disaster Center	**$2,400,000**
TOTAL	**$4,349,940**

STATE OF HAWAII

Supplemental Application

Broadband Data & Development Program

Budget Narrative

July 1, 2010

In accordance with the Hawaii State Legislature, DCCA finds that advanced broadband services are essential infrastructure for an innovation economy and a knowledge society in the twenty-first century. High-speed broadband services at affordable prices are essential for the advancement of education, health, public safety, research and innovation, civic participation, e-government, economic development and diversification, and public safety and services. DCCA also recognizes the evolution in the manner in which communications and information services are delivered to the consumer, including by wireline, wireless, cable television, and satellite infrastructures, and that the voice, video, and data services provided over these infrastructures are converging.

Accordingly, DCCA believes its proposed projects will enable the State of Hawaii to become a leader in the digital economy because they strive to meet the following goals:

(1) Ensure access to broadband communications for all households, businesses, and organizations throughout Hawaii by 2012 at speeds and prices comparable to the average speeds and prices available in the top three performing countries in the world;

(2) Increase availability of advanced broadband communications service on a competitive basis to reduce prices, increase service penetration, and improve service to all persons in Hawaii;

(3) Increase broadband availability at affordable costs to low-income and other disadvantaged groups, including making low-cost, broadband-capable computers available to eligible recipients;

(4) Increase sharing of the infrastructure used to deploy broadband to speed up implementation, reduce costs to Providers, reduce underlying costs to Providers through incentives rather than eminent domain procedures, ease deployment of broadband, and ease entry into a competitive broadband marketplace;

(5) Increase flexible, timely, and responsible access to public rights-of-way and public facilities for broadband service Providers; and

(6) Develop a more streamlined permit approval process that reduces the time and cost of infrastructure deployment, to be created jointly by disparate permitting agencies, stakeholders, and other interested parties.

DCCA believes meeting these goals is critical for Hawaii to compete successfully in the global economy of the twenty-first century and therefore requests NTIA to approve its proposed projects as follows:

Project 1: Data Collection, Integration, Verification and Display

Project 2: State Broadband Capacity Building

Project 3: Technical Assistance

Project 1: Data Collection, Integration, Verification and Display

Detailed Budget Narrative – SF424 *Project 1: Data Collection, Integration, Verification and Display*				
Category	Description of Budget Item	Federal Cost (4 Years)	Matching	Total
Personnel	There are no federal personnel costs associated with this project. DCCA is providing funding for three (3) State Broadband Associates [redacted] each allocated at [redacted] The total in-kind match for these personnel is $324,000. However, a small portion of this personnel match will be applied to Project 2 and Project 3 as these State Broadband Associates are involved on behalf of DCCA across all projects. In consideration of this, and the application of these personnel in Years 2-3, approximately 97% of this total cost is represented as personnel match from DCCA for Project 1 in a total amount of $314,815. The grand total in personnel match from DCCA is $314,815.	$0	$314,815	$314,815
Fringe Benefits	There are no federal fringe benefits costs associated with this project. DCCA is providing funding for fringe benefits for the above positions at a rate of 35%. The total in-kind match for three (3) State Broadband Associates as allocated above is $37,800 each or $113,400. However, a small portion of this fringe benefit match will be applied to Project 2 and Project 3 as these Broadband Associates are involved on behalf of DCCA across all projects. In consideration of this, and the application of these personnel in Years 2-3, approximately 97% of this total cost is represented as fringe benefit match from DCCA for Project 1 in a total amount of $110,185. Therefore, the grand total in fringe benefits match from DCCA is $110,185.	$0	$110,185	$110,185

Detailed Budget Narrative – SF424

Project 1: Data Collection, Integration, Verification and Display

Category	Description of Budget Item	Federal Cost (4 Years)	Matching	Total
Travel	Travel is anticipated for up to ten (10) intrastate round-trips per year at a cost of $250 each. This travel budget will accommodate all subcontracted positions. The four-year total cost of travel is $10,000.	$10,000	$0	$10,000
Equipment	Additional Hardware/Software will need to be purchased to provide for locally hosted servers, storage, and a content management system in support of the State Broadband website, speed tests, social media integration elements and to support the State outreach plan. Cloud hosting/bandwidth services will be utilized for Interstate Speed Tests. The four-year cost of additional hardware and software is $225,000. The four-year cost of Cloud services is $34,000. The total cost for equipment is therefore $259,000.	$259,000	$0	$259,000
Supplies	The project will require subscribing to certain commercial datasets for data verification and other software licensing/maintenance costs. The project plans to license the InfoUSA database as a data verification asset and to pay for ongoing maintenance of the ESRI Broadbandstat application that is being deployed in years 1-2 of the mapping project. The cost for the InfoUSA subscription is $1,500 per year. The cost of ESRI ongoing licensing and maintenance of the Broadbandstat application is $5,000 per year. The total four-year federal share of Supplies is $26,000.	$26,000	$0	$26,000
Subcontracts	University of Hawaii/Pacific Disaster Center (UH/PDC) will be the prime subcontractor for DCCA. It is envisioned that two (2) subcontracts are issued for this project. The first, for Data Collection, Integration, Verification, and Display which has a period of performance in Years 3-5 at a cost of $1,125,000, and the second, for Website Development and Ongoing Maintenance which has a period of performance in Years 2-5 at a cost of $280,000. The total four-year cost for subcontracts under this project is $1,405,000.	$1,405,000	$0	$1,405,000
Other	There are no federal costs associated with this category.	$0	$0	$0

Detailed Budget Narrative – SF424

Project 1: Data Collection, Integration, Verification and Display

Category	Description of Budget Item	Federal Cost (4 Years)	Matching	Total
Total Direct Charges	The total direct charges for Project 1 include the following. $1,700,000 in federal costs $ 425,000 in DCCA in-kind matching (25% of federal cost) The four-year grand total is $2,125,000	$1,700,000	$425,000	$2,125,000
Total Indirect Charges	There no indirect charges for this project.	$0	$0	$0
TOTAL	**The Four-Year TOTAL Cost for PROJECT 1**	**$1,700,000**	**$425,000**	**$2,125,000**

Project 2: State Capacity Building

Detailed Budget Narrative – SF424 *Project 2: State Capacity Building*				
Category	Description of Budget Item	Federal Cost (4 Years)	Matching	Total
Personnel	There are no federal personnel costs associated with this project. DCCA is providing funding for one [redacted] allocated at [redacted] The total in-kind match for this position is $81,600. Additionally, DCCA is providing funding for one [redacted] allocated at [redacted] The total in-kind match for this position is $33,600. The subtotal in personnel match from DCCA is $115,200. However, a portion of the personnel match for the Cable Administrator and Administrative Assistant will be applied to Project 2 and Project 3 as these positions are accountable across both projects. In consideration of this, approximately 66% of their total cost is represented as personnel match from DCCA for Project 2 in a total amount of $76,032. Additionally as mentioned earlier, DCCA is applying a fraction of the funding for three (3) State Broadband Associates (approximately 1.5% of their cost) to Project 2 in the amount of $4,593. Therefore, the grand total in personnel match from DCCA is $80,625.	$0	$80,625	$80,625
Fringe Benefits	There are no federal fringe benefits costs associated with this project. DCCA is providing funding for fringe benefits for the above positions at a rate of 35%. The total in-kind match for one (1) Cable Administrator as allocated above is $28,560. The total in-kind match for one (1) Administrative Assistant as allocated above is $11,760. Therefore, the subtotal in fringe benefits match from DCCA is $40,320.	$0	$28,219	$28,219

Detailed Budget Narrative – SF424
Project 2: State Capacity Building

Category	Description of Budget Item	Federal Cost (4 Years)	Matching	Total
	However, a portion of the fringe benefits match for the Cable Administrator and Administrative Assistant will be applied to Project 2 and Project 3 as these positions are accountable across both projects. In consideration of this, approximately 66% of their total cost is represented as fringe benefits match from DCCA for Project 2 in a total amount of $26,611. Additionally as mentioned earlier, DCCA is applying a fraction of the funding for three (3) State Broadband Associates (approximately 1.5% of their cost) to Project 2 in the amount of $1,608. Therefore, the grand total in fringe benefits match from DCCA is $28,219.			
Travel	Travel is anticipated for up to ten (10) intrastate round-trips per year at a cost of $250 each. This matching travel budget will accommodate all personnel positions. The four-year total cost of travel is $4,000. Travel has been apportioned across Project 2 and Project 3. In consideration of this, the total cost represented as travel match from DCCA for Project 2 is a total amount of $1,500.	$0	$1500	$1,500
Equipment	There are no federal equipment costs associated with this project.	$0	$0	$0
Supplies	There are no federal supplies costs associated with this project. DCCA is providing in-kind matching funds for additional supplies, formal presentation materials, printing of meeting reports and agendas, State Broadband marketing materials, press releases, and other ancillary supplies in the total amount of $3,080. Supplies have been apportioned across Project 2 and Project 3. In consideration of this, the total cost represented as supplies match from DCCA for Project 2 is a total amount of $2,156.	$0	$2,156	$2,156

Detailed Budget Narrative – SF424
Project 2: State Capacity Building

Category	Description of Budget Item	Federal Cost (4 Years)	Matching	Total
Subcontracts	University of Hawaii/Pacific Disaster Center (UH/PDC) will be the prime subcontractor for DCCA. It is envisioned that one (1) subcontract is issued for this project for State Capacity Building which has a period of performance in Years 2-5 at a cost of $450,000, The total four-year cost for subcontracts under this project is $450,000.	$450,000	$0	$450,000
Other	There are no federal costs associated with this category.	$0	$0	$0
Total Direct Charges	The total direct charges for Project 2 include the following. $ 450,000 in federal costs $ 112,500 in DCCA in-kind matching (25% of federal cost) The four-year grand total is $562,500	$450,000	$112,500	$562,500
Total Indirect Charges	There no indirect charges for this project.	$0	$0	$0
TOTAL	**The Four-Year TOTAL Cost for PROJECT 2**	**$450,000**	**$112,500**	**$562,500**

Project 3: Technical Assistance

Detailed Budget Narrative – SF424
Project 3: Technical Assistance

Category	Description of Budget Item	Federal Cost (4 Years)	Matching	Total
Personnel	There are no federal personnel costs associated with this project. DCCA is providing funding for one [redacted] allocated [redacted] The total in-kind match for this position is $81,600. Additionally, DCCA is providing funding for one [redacted] allocated at [redacted] The total in-kind match for this position is $33,600. The subtotal in personnel match from DCCA is $115,200. However, a portion of the personnel match for the Cable Administrator and Administrative Assistant will be applied to Project 2 and Project 3 as these positions are accountable across both projects. In consideration of this, approximately 34% of their total cost is represented as personnel match from DCCA for Project 3 in a total amount of $39,168. Additionally as mentioned earlier, DCCA is applying a fraction of the funding for three (3) State Broadband Associates (approximately 1.5% of their cost) to Project 3 in the amount of $4,592. Therefore, the grand total in personnel match from DCCA is $43,760.	$0	$43,760	$43,760
Fringe Benefits	There are no federal fringe benefits costs associated with this project. DCCA is providing funding for fringe benefits for the above positions at a rate of 35%. The total in-kind match for one (1) Cable Administrator as allocated above is $28,560. The total in-kind match for one (1) Administrative Assistant as allocated above is $11,760. Therefore, the subtotal in fringe benefits match from DCCA is $40,320.	$0	$15,316	$15,316

Detailed Budget Narrative – SF424
Project 3: Technical Assistance

Category	Description of Budget Item	Federal Cost (4 Years)	Matching	Total
	However, a portion of the fringe benefits match for the Cable Administrator and Administrative Assistant will be applied to Project 2 and Project 3 as these positions are accountable across both projects. In consideration of this, approximately 34% of their total cost is represented as fringe benefits match from DCCA for Project 3 in a total amount of $13,709. Additionally as mentioned earlier, DCCA is applying a fraction of the funding for three (3) State Broadband Associates (approximately 1.5% of their cost) to Project 3 in the amount of $1,607. Therefore, the grand total in fringe benefits match from DCCA is $15,316.			
Travel	Travel is anticipated for up to ten (10) intrastate round-trips per year at a cost of $250 each. This matching travel budget will accommodate all personnel positions. The four-year total cost of travel is $4,000. Travel has been apportioned across Project 2 and Project 3. In consideration of this, the total cost represented as travel match from DCCA for Project 3 is a total amount of $2,500.	$0	$2,500	$2,500
Equipment	There are no federal equipment costs associated with this project.	$0	$0	$0
Supplies	There are no federal supplies costs associated with this project. DCCA is providing in-kind matching funds for additional supplies, formal presentation materials, printing of meeting reports and agendas, State Broadband marketing materials, press releases, and other ancillary supplies in the total amount of $3,080. Supplies have been apportioned across Project 2 and Project 3. In consideration of this, the total cost represented as supplies match from DCCA for Project 3 is a total amount of $924.	$0	$924	$924

Detailed Budget Narrative – SF424
Project 3: Technical Assistance

Category	Description of Budget Item	Federal Cost (4 Years)	Matching	Total
Subcontracts	University of Hawaii/Pacific Disaster Center (UH/PDC) will be the prime subcontractor for DCCA. It is envisioned that one (1) subcontract is issued for this project for Technical Assistance which has a period of performance in Years 2-5 at a cost of $250,000, The total four-year cost for subcontracts under this project is $250,000.	$250,000	$0	$250,000
Other	There are no federal costs associated with this category.	$0	$0	$0
Total Direct Charges	The total direct charges for Project 3 include the following. $ 250,000 in federal costs $ 62,500 in DCCA in-kind matching (25% of federal cost) The four-year grand total is $312,500	$250,000	$62,500	$312,500
Total Indirect Charges	There no indirect charges for this project.	$0	$0	$0
TOTAL	**The Four-Year TOTAL Cost for PROJECT 3**	**$250,000**	**$62,500**	**$312,500**

GRAND TOTALS	**The Four-Year TOTAL Cost for ALL PROJECTS (1-3)**	**$2,400,000**	**$600,000**	**$3,000,000**

Work Plan Summary		*Supplemental*	*Application*	*Budget*	
Task Description	Team Assigned	Resource/Role	Federal Cost (4 Years)	Percent Allocation of Total	Timeframe (from Grant Award Date)
Project 1: Data Collection, Integration, Verification, Display 1. Supplemental grant is awarded to State of Hawaii DCCA.	DCCA	*Personnel-* Applicant & Principal Investigator	Y2: $0 Y3: $0 Y4: $0 Y5: $0 **Sub-T:** **$0**	0.0%	0 months
Project 1: Data Collection, Integration, Verification, Display 2. Additional Computer equipment is purchased, commercial data verification subscriptions are ordered, software licenses (materials/supplies) are purchased, and host system environment is installed and configured by Subcontractor$_1$ for the project. Baseline data inclusive of geographic base-layers, geocoding layers, imagery, demographic data, and broadband data are loaded onto the system for ongoing data analyses, integration, verification and display. Cloud hosting/bandwidth resources are configured and deployed for Interstate Speed Tests. The system and all data on the system will be secured.	*HW /SW:* UH/PDC *Labor:* UH/PDC	*Subcontract$_1$-* System Administrator	*HW /SW:* Y2: $166,500 Y3: $ 39,500 Y4: $ 39,500 Y5: $ 39,500 **Sub-T:** **$285,000** *Labor:* Y2: $0 Y3: $48,950 Y4: $48,950 Y5: $48,950 **Sub-T:** **$146,850**	*HW /SW:* 11.8% *Labor:* 6.1%	12-48 months
Project 1: Data Collection, Integration, Verification, Display 3. Travel budget is established for Subcontractor$_1$ to meet with DCCA, committees, and Broadband Providers periodically. Ten (10) intra-state day trips per year are provided for at a round-trip cost of $250 each.	UH/PDC	*Subcontract$_{1,2,3,4}$-* Accomodates all listed positions as needed.	Y2: $2,500 Y3: $2,500 Y4: $2,500 Y5: $2,500 **Sub-T:** **$10,000**	0.4%	18-48 months

Work Plan Summary		*Supplemental*	*Application*	*Budget*	
Task Description	Team Assigned	Resource/Role	Federal Cost (4 Years)	Percent Allocation of Total	Timeframe (from Grant Award Date)
Project 1: Data Collection, Integration, Verification, Display 4. Technical project plan/charter, project strategy, and delivery milestones are properly executed and administered. Project and technical tasks are actively managed through their completion and satisfaction of all deliverables is ensured.	UH/PDC	*Subcontract*$_1$- Technical Project Manager	Y2: $0 Y3: $142,000 Y4: $142,000 Y5: $142,000 **Sub-T:** **$426,000**	17.8%	18-48 months
Project 1: Data Collection, Integration, Verification, Display 5. Repeated Data Updating: 5.1. Maintain a semi-annual process of data collection, integration and verification. 5.2. Identify and obtain data from Small Wireless Service Providers (WSPs). 5.3. Increase the granularity of data obtained by Providers – working toward address level detail. 5.4. Increase accuracy of CAI database to include private establishments offering fee or non-fee based public use of internet and wireless hotspots (i.e. SBUX, hotels, restaurants, cafés, commuter routes, shopping malls, kiosks, etc.). 5.5. Augment pricing information to accommodate multiple tiers of service, equipment rebates/costs, incentives/offers, and directory of social media mobile application availability. 5.6. Utilize mobile applications for speed and information gathering and verification.	UH/PDC	*Subcontract*$_1$- GIS Analyst(s)	Y2: $0 Y3: $89,742 Y4: $89,742 Y5: $89,741 **Sub-T:** **$269,225**	11.2%	24-48 months

Work Plan Summary — *Supplemental Application Budget*

Task Description	Team Assigned	Resource/Role	Federal Cost (4 Years)	Percent Allocation of Total	Timeframe (from Grant Award Date)
Project 1: Data Collection, Integration, Verification, Display 6. Process for Data Integration: 6.1. Continue to work with file geodatabase format from NSGIC. 6.2. Keep abreast of changes and updates to NSGIC data model and implement the model in the State. 6.3. Update the Providers with current data formats and map projections so that they may update their own systems accordingly and/or create a roadmap for synchronization of geospatial data. 6.4. Provide secure internet access to broadband maps and data to Providers so that they may visualize and update their information as appropriate.	UH/PDC	*Subcontract₁-* GIS Analyst(s)	Y2: $0 Y3: $16,317 Y4: $16,317 Y5: $16,316 **Sub-T: $48,950**	2.0%	24-48 months
Project 1: Data Collection, Integration, Verification, Display 7. Geo-Locational Referencing: 7.1. Increase Provider feedback frequency and work in partnership to generally increase the accuracy of broadband data, infrastructure locations, and speeds over a three-year period. 7.2. Continue to verify addresses and broadband service locations against TIGER, NAVTEQ, InfoUSA, DCCA business registration database, County Tax Map Key (TMK) database, County Kiva Permitting Database, orthoimagery: IKONOS, QuickBird, LiDAR, USGS Quads, Digital Globe DOQQs, Dasymetric Population Layers developed by PDC (Census 2000).	UH/PDC	*Subcontract₁-* GIS Analyst(s)	Y2: $0 Y3: $32,634 Y4: $32,633 Y5: $32,633 **Sub-T: $97,900**	4.1%	24-48 months

Work Plan Summary — *Supplemental Application Budget*

Task Description	Team Assigned	Resource/Role	Federal Cost (4 Years)	Percent Allocation of Total	Timeframe (from Grant Award Date)
Project 1: Data Collection, Integration, Verification, Display 8. Crowdsourcing: 8.1. Increase accuracy utilizing crowdsourcing technologies by developing and deploying: 8.1.1. Intrastate crowdsourcing (local hosting of customized Ookla tools). 8.1.2. Interstate crowdsourcing (cloud services hosting of customized Ookla tools). 8.1.3. FCC crowdsourcing data integration (FCC Ookla and MLabs tools and data output).	UH/PDC	*Subcontract₁-* Data Processor/ Software Engineer	Y2: $0 Y3: $20,884 Y4: $20,883 Y5: $20,883 **Sub-T: $62,650**	2.6%	24-48 months
Project 1: Data Collection, Integration, Verification, Display 9. Provider Feedback Loop: 9.1. Give Providers access to statewide address data to improve the efficiency of the verification process and to create a built-in feedback loop augmenting the accuracy of their customer records: 9.1.1. Access to statewide addresses is highly-valued by Providers and may result in Providers updating their own databases, and, in turn, providing more accurate coverage maps. 9.2. Build and foster relationships with Providers to enhance partnership in creating a more accurate database. 9.3. Reach out on a continuing basis to (an undetermined number of) small Wireless Service Providers (WSPs) so that their coverage	UH/PDC	*Subcontract₁-* GIS Analyst(s)	Y2: $0 Y3: $24,475 Y4: $24,475 Y5: $24,275 **Sub-T: $73,425**	3.1%	24-48 months

III. Other SBDD Program Purposes

State Broadband Capacity Building

Name: State of Hawaii Broadband Capacity Building Project

The State of Hawaii's Broadband Capacity Building Project will strive to identify gaps in broadband service throughout the State and reduce barriers to broadband adoption.

Funds Awarded

Pursuant to Award Number **15-50-M09057**, the State of Hawaii's Department of Commerce and Consumer Affairs ("DCCA") was awarded **$500,000** in federal funds for broadband planning activities over a five-year period. DCCA's planning activities included identifying gaps and reducing barriers to the adoption of broadband and information technology services in the State. DCCA has not received any federal funds for a specific Broadband Capacity Building Project, but many of DCCA's proposed Broadband Capacity Building activities will augment planning projects previously proposed by DCCA to identify and reduce barriers to broadband adoption.

Funds Requested

DCCA respectfully requests **$450,000** in federal funding to fund its Broadband Capacity Building activities and to further its programs for identifying and reducing barriers to broadband adoption.

Problem

On April 27, 2010, the State of Hawaii Legislature passed a bill (H.B. 2698) requiring the Director of DCCA to promote and encourage telework in conjunction with broadband. The purpose of the bill is to ensure that citizens of Hawaii have access to high-speed broadband services at affordable prices. Accordingly, the bill seeks to meet the following goals:

(1) Ensure access to broadband communications for all households, businesses, and organizations throughout Hawaii by 2012 at speeds and prices comparable to the average speeds and prices available in the top three performing countries in the world;

(2) Increase availability of advanced broadband communications service on a competitive basis to reduce prices, increase service penetration, and improve service to all persons in Hawaii;

(3) Increase broadband availability at affordable costs to low-income and other disadvantaged groups, including making low-cost, broadband-capable computers available to eligible recipients;

(4) Increase sharing of the infrastructure used to deploy broadband to speed up implementation, reduce costs to Providers, reduce underlying costs to Providers through incentives rather than eminent domain procedures, ease deployment of broadband, and ease entry into a competitive broadband marketplace;

(5) Increase flexible, timely, and responsible access to public rights-of-way and public facilities for broadband service Providers; and

(6) Develop a more streamlined permit approval process that reduces the time and cost of infrastructure deployment, to be created jointly by disparate permitting agencies, stakeholders, and other interested parties.

Moreover, the bill seeks to further implement recommendations from the Hawaii Broadband Task Force ("Task Force"), which was established in 2007 by the Legislature through Act 2 of the First Special Session of Hawaii 2007, on how to advance broadband within the State. The Task Force found in its Final Report dated December 2008 ("Final Report") that the State of Hawaii was lagging behind several states in its broadband capabilities and pricing, and was at the bottom of many national broadband studies.

The Task Force also found that service Providers in the State of Hawaii face a number of significant obstacles to providing broadband and information technology services in Hawaii. In addition to complicated permitting procedures, Providers face a lack of access to poles, conduits, and rights-of-way as well as sites and other structures for the placement of broadband antennas and other infrastructure. Broadband service Providers have found that incumbents have imposed unjust, unreasonable and discriminatory pole and conduit access for fiber overlay. The unavailability of essential poles, conduits, and rights-of-way frustrates the public interest, competition, and the State's goal of universal access to broadband services.

Solution

In order to promote and support the objectives of H.B. 2698 and the Final Report, DCCA will establish a Broadband Capacity Building Planning Committee ("Broadband Committee"). The Broadband Committee will be responsible for identifying barriers and gaps and developing a State plan to expand broadband and information technology services in the State. The State plan will recommend policy and funding priorities to expedite deployment of affordable and accessible broadband services in Hawaii and will promote and encourage the use of public-private partnerships to increase the deployment and adoption of broadband services and applications.

The Broadband Committee will seek to augment the data findings and the gap and infrastructure analysis detailed in the 5-Year Master Plan developed pursuant to the broadband mapping and planning grants. In order to close these gaps, the Broadband Committee will create a State plan utilizing benchmarks already established in the Task Force's Final Report and a roadmap for meeting the benchmarks. Activities involved in creating the State Plan will also include:

(1) Monitoring the broadband-based development efforts of other states and nations in areas such as business, education, and health;

(2) Monitoring other states' best practices involving telework promotion, as well as policies and strategies related to making affordable broadband services available to every Hawaii home and business;

(3) Monitoring broadband-related activities at the federal level; and

(4) Monitoring regulatory and policy changes for potential impact on broadband deployment and sustainability in Hawaii.

Once the State plan is complete, the Broadband Committee will seek to prioritize and guide the implementation and adoption of broadband as Critical Infrastructure in strategic locations. It will share and disseminate both the State plan and any applicable broadband availability data collection results in order to further improve State and local understanding of broadband issues and opportunities to enhance broadband within Hawaii. As necessary, the Broadband Committee will advise and assist other State agencies, and upon request of the counties, advise and assist the counties, in planning, developing, and administering the State plan.

The Broadband Committee will also assess and promote the programs that currently exist within the State that already support broadband growth and adoption. After reviewing programs that currently exist within the State and the State plan, the Broadband Committee will recommend additional programs to establish affordable, accessible broadband services to unserved and underserved areas of Hawaii, and monitor advancements in communications that will facilitate this goal.

The Broadband Committee will consist of members from DCCA and may also include members of the State telework promotion and broadband assistance Advisory Council established by DCCA pursuant to H.B. 2698.[1] That Advisory Council will be chaired by the Administrator of the Cable Television Division of DCCA and will be composed of twelve (12) members appointed by the President of the Senate and by the Speaker of the House of Representatives.

In addition, DCCA will establish a Work Group pursuant to H.B. 2698 to develop procedures for streamlined permitting functions applicable to the development of broadband services or technology that are normally available to state and local governments for the use or development of broadband service or broadband technology. The Work Group will develop a report by January 1, 2011, with its recommended procedures for streamlining, and expediting all permitting functions for the use or development of broadband service or broadband technology. It is anticipated that the Work Group will promote the creation of a state-level uniform regulatory body that will facilitate a streamlined permit application processes for broadband Providers so that they may implement broadband infrastructure in alignment with the State plan. It is also anticipated that the procedures set forth by the consolidated regulatory body will be made consistent across all counties and that any permitting fees and revenues traditionally accruing to the counties that relate to the use or development of broadband service or broadband technology will continue to accrue to the counties after the procedures go into effect.

Finally, the Work Group will seek to increase the sharing of infrastructure used to deploy broadband services. This initiative will be implemented by reducing underlying costs to Providers through incentives rather than eminent domain procedures. The Work Group will also promote flexible, timely, and responsible access to public rights-of-way and public facilities for broadband service Providers.

Outcomes and Benefits

The State plan generated by the Broadband Committee and the efforts of the Work Group will seek to substantially increase broadband adoption in the State and help better serve the public's demand for

[1] Alternatively, the Broadband Committee and the Advisory Council may be merged into a single entity.

high-speed services at a lower cost. The activities under the Broadband Capacity Building Project intend to meet the following goals:

(1) Identify barriers to the adoption of broadband service and information technology services;

(2) Increase availability of advanced broadband communications service on a competitive basis to reduce gaps, increase service penetration, and improve service to all persons in Hawaii;

(3) Develop a more streamlined permit approval process, which reduces the time and cost of infrastructure deployment, to be created jointly by disparate permitting agencies, stakeholders, and other interested parties;

(4) Increase sharing of the infrastructure used to deploy broadband to speed up implementation, reduce costs to Providers, reduce underlying costs to Providers through incentives rather than eminent domain procedures, ease deployment of broadband, and ease entry into a competitive broadband marketplace;

(5) Increase flexible, timely, and responsible access to public rights-of-way and public facilities for broadband service Providers; and

(6) Ensure access to broadband communications for all households, businesses, and organizations throughout Hawaii by 2012 at speeds and prices comparable to the average speeds and prices available in the top three performing countries in the world.

Cost

DCCA believes the costs to implement its Broadband Capacity Building Project and accompanying activities are reasonable. A portion of the Broadband Committee's costs will be covered under Section 26-9(0), Hawaii Revised Statutes. DCCA anticipates requiring federal funding for a Broadband/IT Advisor position and to augment direct costs for additional broadband research, technology and policy gap analysis, interstate outreach, Provider relationship management, and technical planning elements, as wells as, expenses such as travel, materials, supplies, equipment and other costs over the remaining four years of the Program. DCCA's costs and justification for the same are set forth in its accompanying budget and budget narrative.

SBDD Purpose

DCCA's Broadband Capacity Building Project will meet four of the SBDD Grant Program's eligible uses, including: 1) baseline assessment of broadband deployment in the State; 2) identification of areas with low levels of deployment, the rate at which residential and business users adopt broadband service and other related information technology services, and possible suppliers of such services; 3) identification of barriers to the adoption of broadband service and information technology services; and 4) identification of available speeds for broadband connection.

Technical Assistance

Name: State of Hawaii Technical Assistance Project

The State of Hawaii's Technical Assistance Project seeks to implement programs that will increase access to broadband services and digital literacy through the creation of local technology planning teams and computer ownership and Internet access programs.

Funds Awarded

Pursuant to Award Number **15-50-M09057**, the State of Hawaii's Department of Commerce and Consumer Affairs ("DCCA") was awarded **$500,000** in federal funds for broadband planning activities over a five-year period. However, the majority of the awarded funds are scheduled to be expended in the first two (2) years. DCCA's planning activities included creating and facilitating local technology planning teams and establishing computer ownership and Internet access programs. DCCA has not received any federal funds for a specific Technical Assistance Project, but many of DCCA's proposed Technical Assistance activities will augment planning projects previously proposed by DCCA to improve access to broadband services and digital literacy.

Funds Requested

DCCA respectfully requests **$250,000** in federal funding to fund its Technical Assistance activities and to further its programs for creating and facilitating local technology planning teams and establishing computer ownership and Internet access programs.

Problem

As noted above, the State of Hawaii Legislature created the Hawaii Broadband Task Force ("Task Force") to provide recommendations on how to advance broadband within the State of Hawaii. The Task Force found in its Final Report that broadband services are critical infrastructure for Hawaii's advancement. The Task Force, however, found that supplying advanced broadband at affordable prices was only one side of the equation. The Task Force therefore recommended the stimulation of demand by consumers of broadband services in the State by demonstrating the value of broadband to its citizenry, deploying broadband services to the public, and ensuring that the economically disadvantaged members of its communities are not left behind.

Solution

DCCA will utilize the information contained in the Task Force Final Report to stimulate demand for broadband services by Hawaii citizens. Accordingly, DCCA will establish a Technical Assistance Committee ("TA Committee"). The TA Committee will be composed of members from DCCA and public/private agency membership from the following sectors in Hawaii: Policy, Technology Implementation, Communications, Research, Education, Emergency Services, Disaster Management, and Public Outreach.

Under the administrative oversight of DCCA, the University of Hawaii ("UH") will take the lead in assisting the TA Committee in implementing the State's Technical Assistance Project. To accomplish this, UH has assembled a multi-disciplinary and cross-domain team of experts, including the University's Pacific Disaster Center ("PDC") Program.

RHD Consulting, LLC ("RHD"), led by Mr. Bob Doeringer, will act as a State broadband subject-matter expert and advisor to the project. Mr. Doeringer provided consultancy to the State's Broadband Task Force and will perform general quality control over the project and deliverables.

The primary objective of the TA Committee will be to fine tune and address certain conclusions drawn by the Task Force related to broadband availability and adoption in the State. The TA Committee will also meet regularly to review information provided by the Broadband Committee and will offer expert guidance and recommendations on fulfilling the scope of the State plan. It is the aim of the TA Committee to implement policy at State and local levels that will support a minimum broadband technology requirement in all building/community development projects and will enhance computer/Internet access, disaster management capabilities and emergency services/communications with the public. The TA Committee's goals include, but are not limited to:

(1) Lowering the price of broadband via creative public/private partnerships that offset the cost;

(2) Increasing the awareness of the benefits of broadband;

(3) Promoting digital literacy to increase the ability to utilize broadband;

(4) Providing relevant content; and

(5) Facilitating technology strategy development, planning for the acquisition of affordable hardware, and sustainability planning.

In order to meet these goals, the TA Committee will facilitate the creation of local technology planning teams. The TA Committee will work with community stakeholders and support organizations such as Economic Development Boards, Small Business Development Councils, and Chambers of Commerce to coordinate resources and planning efforts to promote broadband awareness and adoption. It will provide technical expertise to local institutions, non-profits and governments to develop or help sustain deployment- and adoption-related initiatives.

The TA Committee will also establish an affordable hardware acquisition program through the assistance of hardware OEM partners for the underserved and unserved communities in Hawaii. These programs will seek to increase broadband availability at affordable costs to low-income and other disadvantaged groups, including making low-cost, broadband-capable computers available to eligible recipients. DCCA anticipates that the TA Committee will work with local technology planning teams and other community stakeholders to implement programs designed to improve digital literacy skills and small business broadband training. These team members will also provide educational information to communities, businesses and others about these programs.

Outcomes and Benefits

DCCA expects that the Technical Assistance Project will increase broadband availability at affordable costs to low-income and other disadvantaged groups by making low-cost, broadband-capable computers available to eligible recipients and improving digital literacy.

Cost

DCCA believes the costs to implement its Technical Assistance Project and accompanying activities are reasonable. A portion of the Project's costs will be covered under Section 26-9(0), Hawaii Revised Statutes. DCCA anticipates requiring federal funding for a Technical Assistance Advisor position and expenses such as travel, materials, supplies, equipment and other direct costs over the remaining four years of the Program. DCCA's costs and justification for the same are set forth in its accompanying budget and budget narrative.

SBDD Purpose

DCCA's Technical Assistance Project will meet two of the SBDD Grant Program's eligible uses, including: (1) the creation and facilitation by county or designated region in a State of local technology planning teams; and (2) the establishment of computer ownership and Internet access programs in unserved and areas with lower than average penetration on a national basis.

IV. Conclusion

In accordance with the Hawaii State Legislature, DCCA finds that advanced broadband services are essential infrastructure for an innovation economy and a knowledge society in the twenty-first century. High-speed broadband services at affordable prices are essential for the advancement of education, health, public safety, research and innovation, civic participation, e-government, economic development and diversification, and public safety and services. DCCA also recognizes the evolution in the manner in which communications and information services are delivered to consumers, including by wireline, wireless, cable television, and satellite infrastructures, and that the voice, video, and data services provided over these infrastructures are converging.

Accordingly, DCCA believes its proposed projects will enable the State of Hawaii to become a leader in the digital economy, because they strive to meet the following goals:

(1) Ensure access to broadband communications for all households, businesses, and organizations throughout Hawaii by 2012 at speeds and prices comparable to the average speeds and prices available in the top three performing countries in the world;

(2) Increase availability of advanced broadband communications service on a competitive basis to reduce prices, increase service penetration, and improve service to all persons in Hawaii;

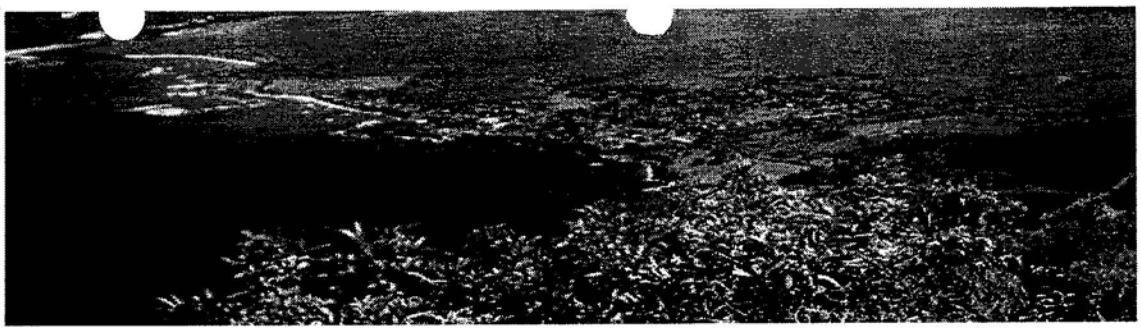
(3) Increase broadband availability at affordable costs to low-income and other disadvantaged groups, including making low-cost, broadband-capable computers available to eligible recipients;

(4) Increase sharing of the infrastructure used to deploy broadband to speed up implementation, reduce costs to Providers, reduce underlying costs to Providers through incentives rather than eminent domain procedures, ease deployment of broadband, and ease entry into a competitive broadband marketplace;

(5) Increase flexible, timely, and responsible access to public rights-of-way and public facilities for broadband service Providers; and

(6) Develop a more streamlined permit approval process, which reduces the time and cost of infrastructure deployment, to be created jointly by disparate permitting agencies, stakeholders, and other interested parties.

DCCA believes meeting these goals is critical for Hawaii to compete successfully in the global economy of the twenty-first century and therefore requests NTIA to approve its proposed State Broadband Capacity Building and Technical Assistance projects.



STATE OF HAWAII

Supplemental Application

Broadband Data & Development Program

Evidence of Support

July 1, 2010

State of Hawaii Broadband Data and Development Program: Evidence of Support

The State of Hawaii's Department of Commerce and Consumer Affairs ("DCCA") has received strong support from the State and partners to its State Broadband Data and Development Program ("SBDD") mapping award.

Strong support from the State of Hawaii is evidenced by the State Legislature's recent passing of state measure H.B. 2698, relating to technology, telework promotion and broadband assistance. The purpose of the bill, which was passed on April 27, 2010 and will be permitted by Governor Lingle to become law, is to ensure that citizens of Hawaii have access to high-speed broadband services at affordable prices. As such, it requires the Director DCCA to promote and encourage telework in conjunction with broadband. A copy of the bill may be found at:
http://www.capitol.hawaii.gov/session2010/bills/HB2698_CD1_.pdf

Additional support from the State is evident in the State's Broadband Plan, a copy of which can be found at: http://www.hbtf.org/files/Hawaii%20Broadband%20TaskForce%20Final%20Report.pdf. The Plan was developed by the Hawaii Broadband Task Force, which was established in 2007 by Hawaii's State Legislature through Act 2 of the First Special Session of Hawaii 2007. The Task Force was created to provide recommendations on how to advance broadband within the State.

To implement its SBDD program, DCCA has entered into a partnership with the University of Hawaii ("UH"), which has assembled a multi-disciplinary and cross-domain team of experts, including the University's Pacific Disaster Center. A copy of the fully-executed Memorandum of Understanding between DCCA and UH has been attached to DCCA's supplemental application.

DCCA is also in the process of finalizing agreements with a number of private industry experts and organizations with vast capabilities in broadband and telecommunications technologies. Further, DCCA has existing relationships with, and access to, a wide range of collaborating state agencies, and holds a considerable inventory of detailed state-wide data. These entities and subject matter experts have access to many local and national resources that will support DCCA's efforts and ensure that it fully meets its SBDD requirements and obligations within the stated timelines.

With the help and support of the State and the team members listed above, DCCA will ensure that Hawaii and its citizens receive the most benefit from the stimulus funding.

MEMORANDUM OF UNDERSTANDING FOR THE BROADBAND DATA AND DEVELOPMENT PROGRAM FOR THE STATE OF HAWAII

This "Memorandum of Understanding for the Broadband Data and Development Program for the State of Hawaii" ("**Memorandum**") is effective as of January 13, 2010 by and between: (1) the Department of Commerce and Consumer Affairs ("**DCCA**") of the State of Hawaii ("**State**") and (2) the University of Hawaii ("**UH**"), a governmental agency of the State of Hawaii.[1]

RECITALS

WHEREAS, DCCA and the U.S. Department of Commerce ("**Funding Agency**") are parties to a federal grant, award number 15-50-M09057 and CFDA number 11.558, entitled "American Recovery and Reinvestment Act - SBDD - Hawaii Department of Commerce and Consumer Affairs" (hereinafter "**Grant**"), a copy of which is attached as Attachment "**1**" and incorporated and made a part of this Memorandum;

WHEREAS, DCCA is serving as the recipient and Lead Administrator of the Grant due to its existing activities in the promotion of broadband available in the State and due to the unique relationship maintained by DCCA's Cable Television Division with the existing and prospective broadband carriers in the State;

WHEREAS, UH is the Managing Partner of the Pacific Disaster Center ("**PDC**") program;

WHEREAS, UH has expertise in federal grant management and compliance;

WHEREAS, PDC has significant expertise in GIS, data mapping, processing and hosting, along with federal grant management and compliance;

WHEREAS, DCCA seeks the assistance of UH/PDC in the execution and administration of the Grant and its requirements;

WHEREAS, UH/PDC has agreed to act as Project Manager and Systems Architect in the execution and administration of the Grant, and to perform the duties indicated in the Statement of Work ("**SOW**") in Attachment "**2**" (which is hereby incorporated into and made a part of this Memorandum) and to enter into any and all

---

[1] The Parties executed this Memorandum on April 14, 2010, but with an effective date of January 13, 2010.

contractual arrangements with subcontractors identified as necessary for the execution of the Grant requirements; and

WHEREAS, subject to the receipt of funds from the Funding Agency, DCCA desires to compensate UH/PDC for its work on the Grant in accordance with the applicable Project Budget in Attachment "**3**" (which is incorporated into and made a part of this Memorandum), recognizing that portions of the compensation shall be provided by UH/PDC to subcontractors, also in accordance with Attachment "3".

AGREEMENT

NOW, THEREFORE, in consideration of the promises and mutual covenants contained herein, DCCA and UH/PDC hereby agree as follows:

1. Statement of Work. UH/PDC agrees to perform the services for the implementation, administration, and completion of those portions of the SOW in Attachment "2" identified within the SOW as being performed by UH/PDC and/or its subcontractors.

2. Federal Grant Requirements. Applicable to the Grant and incorporated herein by reference, are the requirements of the appropriate Federal Regulations and Office of Management and Budget ("**OMB**") Circulars; provided that "appropriate" shall be determined by the organizational nature of the recipient of funding. UH/PDC acknowledges that it is familiar with and agrees to conform to all appropriate federal laws and regulations applicable to the Grant, including but not limited to:

    a. The Department of Commerce Financial Assistance Standard Terms and Conditions (March 2008);

    b. The Uniform Administrative Requirements for Grants and Agreements with Institutions of Higher Education, Hospitals, Other Non-Profit, and Commercial Organizations (15 CFR Part 14);

    c. The Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments (15 CFR Part 24);

    d. The OMB Circular A-21, Cost Principles for Educational Institutions;

    e. The OMB Circular A-87, Cost Principles for State, Local, and Indian Tribal Governments;

    f. The OMB Circular A-122, Cost Principles for Nonprofit Organizations;

g. The OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations; and

h. The Federal Contract Cost Principles and Procedures (48 CFR Part 31).

3. Grant Compliance.

a. The parties acknowledge and agree that DCCA is the Grant recipient and Lead Administrator and that DCCA shall provide its services, those of its staff, and State data resources as in-kind contributions under the Grant.

b. DCCA acknowledges and agrees that DCCA shall be solely responsible for accounting for DCCA's in-kind contributions in accordance with the cost share requirements of the Grant.

c. UH/PDC acknowledges and agrees that while DCCA will submit to the Funding Agency all Grant agreement documentation, reports, data packages, audit responses, and other materials required by the Grant and Funding Agency, UH/PDC shall be responsible for ensuring that all such material, with the exception of DCCA's in-kind contributions noted above, is complete, accurate, responsive to, and compliant with, the requirements of the Grant and the Funding Agency. UH/PDC further agrees to supply complete drafts of such materials to DCCA sufficiently in advance of such deadlines to allow for review and approval by DCCA prior to its submission by DCCA to the Funding Agency.

d. DCCA agrees to provide copies of the Grant and any modifications thereof to UH/PDC in a timely manner to enable UH/PDC to properly advise DCCA regarding deadlines for filing any and all materials required under the Grant and the Funding Agency.

4. Subcontractors.

a. UH/PDC agrees to enter into contractual arrangements with the subcontractors identified in the SOW in order to secure their performance of the tasks identified within the SOW as assigned to them for completion. UH/PDC shall not replace or substitute the subcontractors identified in the SOW with other subcontractors or with its own resources without the express written permission of DCCA, which shall not be unreasonably withheld.

b. UH/PDC further agrees to include provisions in all of its agreements with subcontractors requiring subcontractors to conform to the relevant provisions of this Memorandum and all federal rules and regulations that

may apply to the conduct and performance of the Grant, including the general and special award conditions indicated in the Grant documentation, and also including the appropriate provisions indicated in Paragraph 2 above, "Federal Grant Requirements". If at any time, UH/PDC becomes aware that a subcontractor is failing to comply with any of the requirements of the Grant or relevant provisions of this Memorandum, UH/PDC shall promptly notify DCCA in writing of such non-compliance.

5. Period of Agreement and Amount. The period of performance and amount of this Memorandum shall be as listed in the Project Budget in Attachment "3".

6. Method of Payment.

   a. UH/PDC acknowledges and agrees that it shall be paid by DCCA only from such federal funds received from the Funding Agency pursuant to the Grant, and shall not be paid from any other funds.

   b. DCCA shall endeavor to provide reimbursement payments to UH/PDC on a monthly basis, but in no event will DCCA make payments to UH/PDC other than from funds already received from the Funding Agency. Such reimbursement shall be made in accordance with the submission or completion of required deliverables, monthly billings prepared and submitted by UH/PDC, broken down by expense categories reflected in the budget, and must be consistent with the appropriate rules and regulations of the Funding Agency as identified in Paragraph 2 above. The failure to submit invoices on a timely basis may result in delayed reimbursement. DCCA may withhold reimbursement payments if quarterly financial reports are not submitted on a timely basis or if reported cost sharing data, excepting DCCA's cost sharing data, is not current.

7. Audit Requirements.

   a. The provisions of OMB Circular A-133, "Audits of States, Local Governments, and Nonprofit Organizations", shall apply to this Memorandum.

   b. UH/PDC agrees to:

      1. Comply with the requirements of OMB Circular A-133;

      2. Require each of its subcontractors to comply with the requirements of OMB Circular A-133; and

3. Provide DCCA with timely access to any independent auditors' reports that describe instances of noncompliance with federal laws and regulations that bear directly on the performance or administration of the Grant. In cases of such noncompliance, UH/PDC shall provide DCCA with copies of responses to auditors' reports and associated corrective action plans.

c. All reports prepared in accordance with the requirements of OMB Circular A-133 shall be available for inspection by representatives of DCCA or the Funding Agency during normal business hours. UH/PDC shall cooperate with DCCA in resolving questions that DCCA may have concerning any audit reports and plans for corrective action(s). The failure to submit the audit report and corrective actions may result in delayed reimbursement to UH/PDC for costs incurred under this Memorandum.

8. Examination of Records.

a. UH/PDC agrees that DCCA or any of their duly authorized representatives shall have access to, and the right to inspect or audit any directly pertinent books, documents, papers and records of UH/PDC involving transactions related to the Grant.

b. UH/PDC agrees that it shall keep for a period of three (3) years following completion of the project, or until all litigation, claims or audit findings have been resolved and final action is taken, such records as may be reasonably necessary to facilitate an effective audit.

9. Termination.

a. DCCA may terminate this Memorandum for any reason at any time; provided that DCCA shall provide at least thirty (30) calendar days' notice to UH/PDC.

b. In the event this Memorandum is terminated, UH/PDC shall be entitled to its reasonable, allowable, and allocable costs, including non-cancelable obligations, in accordance with the appropriate cost principles (OMB Circular A-21), that were incurred up to the date of termination.

10. Disallowed Costs. UH/PDC shall reimburse DCCA for all costs that are disallowed by the Funding Agency or an authorized agency rule except for any disallowed costs that arise or result from DCCA's failure to provide, meet, or account for DCCA's in-kind cost-share commitments under the Grant (including but not limited to direct and/or indirect costs that were not made in compliance

with the applicable cost principles, regulations of the Funding Agency, and/or the provisions of the Grant or this Memorandum).

11. Confidentiality.

a. To the extent permitted by law, UH/PDC shall treat as confidential all information provided to it by DCCA and broadband service providers in Hawaii, and shall use such information only in fulfillment of the Grant requirements and only to the extent required by the Grant.

b. UH/PDC shall also enter into confidentiality agreements with broadband service providers to the extent such confidentiality agreements are requested by broadband service providers.

c. UH/PDC shall also require each of its subcontractors to treat as confidential all information provided to them directly or indirectly through UH/PDC by DCCA and broadband service providers in Hawaii and to enter into confidentiality agreements with broadband service providers to the extent that such agreements are requested by broadband service providers.

12. Disputes. Any disputes concerning a matter of fact arising under this Memorandum, which is not disposed of by mutual agreement within thirty (30) calendar days, shall be determined by the Director of DCCA or the Director's designated representative who shall reduce the decision to writing and mail or otherwise furnish a copy of the decision to UH/PDC. Pending final decision of such a dispute, UH/PDC shall proceed diligently with the performance of services not in dispute under this Memorandum in accordance with DCCA's written request.

13. Ownership Rights and Copyright.

a. If UH/PDC, or an employee or employees of UH/PDC, obtains a copyright to any material, whether finished or unfinished, that is developed, prepared, assembled, or created pursuant to this Memorandum, UH/PDC or its employees, as the case may be, shall own the copyright. DCCA may use the materials developed, prepared, assembled, or created pursuant to this Memorandum for any and all purposes, without restriction or charge.

b. If neither UH/PDC, nor any employee of UH/PDC, before or by the date one year following the completion of this Memorandum, obtains a copyright to such material, DCCA may consider such material to be "works for hire," and in such circumstance, shall own the material and may copyright it.

c. If DCCA owns the material or the copyright or both, UH/PDC may use the material for any and all purposes without restriction or charge.

d. The parties agree that upon the completion of this Memorandum they will execute a document that recites the day they agree to as the completion date and that date shall be the date of completion for the purposes of this paragraph.

14. Governing Law. The validity of this Memorandum and any of its terms or provisions, as well as the rights and duties of the parties to this Memorandum, shall be governed by the laws of the State of Hawaii. Any action at law or in equity to enforce or interpret the provisions of this Memorandum shall be brought in a state court of competent jurisdiction in Honolulu, Hawaii.

15. Modifications of Memorandum. Any modification, alteration, amendment, change, or extension of any term, provision, or condition of this Memorandum shall be made only by written amendments to this Memorandum, signed by both UH/PDC and DCCA.

16. Relationship of Parties.

a. In the performance of services, or delivery of goods, or both, required under this Memorandum, UH/PDC shall be considered an "independent subcontractor," with the authority and responsibility to control and direct the performance and details of the work and services required under this Memorandum; provided that DCCA shall have a general right to inspect work in progress to determine whether, in DCCA's opinion, the services are being performed or the goods are being provided, or both, by UH/PDC and its subcontractors in conformance with the Grant and this Memorandum.

b. UH/PDC shall be responsible for the accuracy, completeness, and adequacy of its performance under this Memorandum. Furthermore, to the extent permitted by law, UH/PDC intentionally, voluntarily, and knowingly assumes the sole and entire liability of UH/PDC's employees and agents, and to any individual not a party to this Memorandum, for all loss, damage, or injury caused by UH/PDC, or UH/PDC's employees or agents in the course of their employment.

c. UH/PDC shall be responsible for securing all employee-related insurance coverage for UH/PDC and UH/PDC's employees and agents that is or may be required by law, and for payment of all premiums, costs, and other liabilities associated with securing the insurance coverage.

17. Entire Agreement. It is understood that this Memorandum represents the sole and entire agreement between the parties and may be modified at any time only by written mutual agreement of the parties.

18. Severability. In the event a court declares any provision of this Memorandum invalid or unenforceable, the invalid or unenforceable provision shall be severed and the remaining provisions of this Memorandum shall remain in force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Memorandum on the date specified above.

UNIVERSITY OF HAWAII/
PACIFIC DISASTER CENTER

Name: JAMES R. GAINES
Title: Vice President for Research

DEPARTMENT OF COMMERCE
AND CONSUMER AFFAIRS

Ron Boyer
Acting Director

APPROVED AS TO FORM:

Deputy Attorney General