

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	11.558	\$ 0	\$ 0	\$ 668,450	\$ 184,093	\$ 852,543
2.		\$	\$	\$	\$	\$ 0
3.		\$	\$	\$	\$	\$ 0
4.		\$	\$	\$	\$	\$ 0
5. TOTALS		\$ 0	\$ 0	\$ 668,450	\$ 184,093	\$ 852,543
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	\$ 46,080	\$	\$	\$ 46,080	
b. Fringe Benefits	\$ 0	\$ 13,363	\$	\$	\$ 13,363	
c. Travel	\$ 4,500	\$ 0	\$	\$	\$ 4,500	
d. Equipment	\$ 53,860	\$ 0	\$	\$	\$ 53,860	
e. Supplies	\$ 110,850	\$ 86,250	\$	\$	\$ 197,100	
f. Contractual	\$ 499,240	\$ 38,400	\$	\$	\$ 537,640	
g. Construction	\$ 0	\$ 0	\$	\$	\$ 0	
h. Other	\$ 0	\$ 0	\$	\$	\$ 0	
i. Total Direct Charges (sum of 6a -6h)	\$ 668,450	\$ 184,093	\$ 0	\$ 0	\$ 0	
j. Indirect Charges	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	
k. TOTALS (sum of 6i and 6j)	\$ 668,450	\$ 184,093	\$ 0	\$ 0	\$ 852,543	
7. Program Income		\$	\$	\$	\$	0.00

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 - Amended for Years 3 to 5	\$ 0	\$ 184,093	\$ 0	\$ 184,093
9.	\$	\$	\$	\$ 0
10.	\$	\$	\$	\$ 0
11.	\$	\$	\$	\$ 0
12. TOTALS (sum of lines 8 and 11)	\$ 0	\$ 184,093	\$ 0	\$ 184,093

SECTION D - FORECASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 175,165	\$ 105,100	\$ 35,033	\$ 17,516	\$ 17,516
14. Non- Federal	\$ 24,461	\$ 6116	\$ 6115	\$ 6115	\$ 6115
15. TOTAL (sum of lines 13 and 14)	\$ 1,001,293.24	\$	\$	\$	\$

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. State Broadband Data and Development Grant Program - Amended for Years 3 to 5	\$ 209,395	\$ 150,045	\$ 113,845	\$ 0
17.	\$ 0	\$ 0	\$ 0	\$ 0
18.	\$ 0	\$ 0	\$ 0	\$ 0
19.	\$ 0	\$ 0	\$ 0	\$ 0
20. TOTALS (sum of lines 16 -19)	\$ 209,395	\$ 150,045	\$ 113,845	\$ 0

SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges: \$648,450	22. Indirect Charges: \$0
23. Remarks	

INSTRUCTIONS FOR THE SF-424A

Public reporting burden for this collection of information is estimated to average 180 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0044), Washington, DC 20503.

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

General Instructions

This form is designed so that application can be made for funds from one or more grant programs. In preparing the budget, adhere to any existing Federal grantor agency guidelines which prescribe how and whether budgeted amounts should be separately shown for different functions or activities within the program. For some programs, grantor agencies may require budgets to be separately shown by function or activity. For other programs, grantor agencies may require a breakdown by function or activity. **Sections A, B, C, and D should include budget estimates for the whole project except when applying for assistance which requires Federal authorization in annual or other funding period increments.** In the latter case, Sections A, B, C, and D should provide the budget for the first budget period (usually a year) and Section E should present the need for Federal assistance in the subsequent budget periods. All applications should contain a breakdown by the object class categories shown in Lines a - k of Section B.

Section A. Budget Summary Lines 1 - 4, Columns (a) and (b)

For applications pertaining to a single Federal grant program (Federal Domestic Assistance Catalog number) and not requiring a functional or activity breakdown, enter on Line 1 under Column (a) the catalog program title and the catalog number in Column (b).

For applications pertaining to a single program requiring budget amounts by multiple functions or activities, enter the name of each activity or function on each line in Column (a), and enter the catalog number in Column (b). For applications pertaining to multiple programs where none of the programs require a breakdown by function or activity, enter the catalog program title on each line in Column (a) and the respective catalog number on each line in Column (b).

For applications pertaining to multiple programs where one or more programs require a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

Lines 1 - 4, Columns (c) through (g.)

For new applications, leave Columns (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Columns (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

Lines 1 - 4, Columns (c) through (g.) (continued)

For continuing grant program applications, submit these forms before the end of each funding period as required by the grantor agency. Enter in Columns (c) and (d) the estimated amounts of funds which will remain unobligated at the end of the grant funding period only if the Federal grantor agency instructions provide for this. Otherwise, leave these columns blank. Enter in columns (e) and (f) the amounts of funds needed for the upcoming period. The amount(s) in Column (g) should be the sum of amounts in Columns (e) and (f).

For supplemental grants and changes to existing grants, do not use Columns (c) and (d). Enter in column (e) the amount of the increase or decrease of Federal Funds and enter in Column (f) the amount of the increase or decrease of non-Federal funds. In Column (g) enter the new total budgeted amount (Federal and non-Federal) which includes the total previous authorized budgeted amounts plus or minus, as appropriate, the amounts shown in Columns (e) and (f). The amount(s) in Column (g) should not equal the sum of amounts in Columns (e) and (f).

Line 5 - Show the totals for all columns used.

Section B. Budget Categories

In the column heading (1) through (4), enter the titles of the same programs, functions, and activities shown on Lines 1 - 4, Column (a), Section A. When additional sheets are prepared for Section A, provide similar column headings on each sheet. For each program, function or activity, fill in the total requirements for funds (both Federal and non-Federal) by object class categories.

Lines 6a-i - Show the totals of Lines 6a to 6h in each column.

Line 6j - Show the amount of indirect cost.

Line 6k - Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1) - (4), Line 6k should be the same as the sum of the amounts in Section A, Columns (e) and (f) on Line 5.

Line 7 - Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount.

INSTRUCTIONS FOR THE SF-424A (Continued)

Line 7 - (continued)

Show under the program narrative statement the nature and source of income. The estimated amount of program income may be considered by the Federal grantor agency in determining the total amount of the grant.

Section C. Non-Federal Resources

Lines 8 - 11 - Enter amounts of non-Federal resources that will be used on the grant. If in-kind contributions are included, provide a brief explanation on a separate sheet.

Column (a) - Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.

Column (b) - Enter the contribution to be made by the applicant.

Column (c) - Enter the amount of the State's cash and in-kind contribution if the applicant is not a State or State agency. Applicants which are a State or State agencies should leave this column blank.

Column (d) - Enter the amount of cash and in-kind contributions to be made from all other sources.

Column (e) - Enter totals of Columns (b), (c), and (d).

Line 12 - Enter the total for each of Columns (b) - (e). The amount in Column (e) should be equal to the amount on Line 5, Column (f), Section A.

Section D. Forecasted Cash Needs

Line 13 - Enter the amount of cash needed by quarter from the grantor agency during the first year.

Line 14 - Enter the amount of cash from all other sources needed by quarter during the first year.

Line 15 - Enter the totals of amounts on Lines 13 and 14.

Section E. Budget Estimates of Federal Funds Needed for Balance of the Project

Lines 16 - 19 - Enter in Column (a) the same grant program titles shown in column (a), Section A. A breakdown by function or activity is not necessary. For new applications and continuation grant applications, enter in the proper columns amounts of Federal funds which will be needed to complete the program or project over the succeeding funding periods (usually in years). This section need not be completed for revisions (amendments, changes, or supplements) to funds for the current year of existing grants.

If more than four lines are needed to list the program titles, submit additional schedules as necessary.

Line 20 - Enter the total for each of the Columns (b) - (e). When additional schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

Section F. Other Budget Information

Line 21 - Use this space to explain amounts for individual direct object-class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

Line 22 - Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

Line 23 - Provide any other explanations or comments deemed necessary.

**State Broadband Data and Development
Program**

Amended and Supplemental Grant

Application Narrative

U.S. Territory of Guam

June 2010



SBDD Grant Application – U.S. Territory of Guam

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SBDD Grant Application – U.S. Territory of Guam

Applicant: One Economy as Eligible Entity for U.S. Territory of Guam
Date: July 1, 2010
Performance Period: Years 2 thru 5 of SBDD Program
Organization type: Eligible Entity

Project Abstract

The U.S. Territory of Guam (Territory), having designated One Economy as its Eligible Entity for the SBDD Program, is working with One Economy and its contracted vendors to collect and verify broadband availability data, including speed and type of technology, following the NOFA specification in the SBDD program. One Economy is also engaging local partners to support broadband planning efforts focused on collecting broadband adoption information to identify barriers to adoption and the creation of a comprehensive adoption blueprint for the Territory.

Current Funding: Mapping = \$750,000; Planning = \$494,772

In support of continuing its success with broadband efforts, the Territory, through its relationship with the vendors, has identified four additional project areas by which to engage the SBDD Grant Program as part of the SBDD years 3 - 5 funding application including:

Data Collection, Integration, Verification and Display

Description: Continuation of data collection, validation, verification, enhancement and introduction of additional mapping attribution and geo-referencing on a third-party-supported GIS mapping platform and geospatial data set accompanied by a transition of this platform to the Territory during year five of the SBDD program.

Data Collection, Integration, Verification and Display —Address Improvement

Description: The introduction of sustainable address file improvement processes and geospatial data set interaction enhancements for both populated and rural areas to support broadband adoption and implementation services. Supporting this project would be an integrated feedback loop at both a municipality and address point level.

Application Usage and Development: Broadband & Geospatial Data Clearinghouse

Description: Design, development and deployment of an interactive GIS asset repository that integrates all of the GIS geospatial data assets associated with assessing, analyzing and forecasting broadband policy effectiveness and optimization of broadband assets across all Territory agencies, federal grant programs and forthcoming implementation efforts that is aligned with “data.gov” principles.

Requested Budget by Project

Project	Requested Budget					Total
	Yr2	Yr3	Yr4	Yr5		
Data Collection	NA	\$129,090	\$98,030	\$81,830	\$308,950	
Address Improvement	\$175,165	\$80,305	\$52,015	\$52,015	\$359,500	
Broadband & Geospatial Clearinghouse		\$230,280	\$49,900	\$44,600	\$324,750	

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SBDD Data Collection, Integration, Verification and Display / Address Improvement

Funding Overview

Current Funding Award (Years 1-2 Mapping)	\$750,000
Additional Funding Request (Years 3-5 including supplementation of Territory address file in years 2-5)	\$668,450
Total Funding Request	\$1,418,450

Overview

The following describes the current proven methodology for Data Gathering, Data Integration, Data Verification and Data Display for the Broadband Mapping project and the proposed continuation of these efforts through years 3-5. In addition, we are proposing an expanded effort for address file development and additional data supplementation for Territory address file during years 2-5 of the performance period.

Data Gathering

Broadband Service Area, Middle Mile Aggregation Points and Broadband Service Overview

The collection of Broadband Service areas, Middle Mile Aggregation points and Broadband Service Overview information is handled through Contractor's established Provider Outreach Process:

- Build and Maintain an Inventory of Broadband Providers through research and Territory inputs.
- Update Provider Material that describes information we need and logistics for data transfer.
- Update NDA for use in project.
- Continue Relationships with Territory-wide and National Alliance groups to foster cooperation.
- Continue Relationships with each Broadband Provider and identify appropriate contacts.
- Maintain a secure Data transfer protocol using SFTP technology.
- Engage in one-on-one technical meetings to ensure understanding and expectations with Provider.
- Walk Provider through Data Upload SFTP site.
- Download and Processing of Provider Data.
- Allow Provider to examine generated coverage patterns and data layers for verification.
- Adjust and tune coverage as necessary.
- Continue to work with Provider to establish a repeatable process.
- Assist with data preparation with Provider as necessary.
- Maintain records throughout Provider Communication and data handling process (dates contacted, data received, etc.)

The Collection of Community Anchor Institution (CAI) Data

The collection of CAI information is handled through Contractor's established CAI collection Process:

- Maintain Inventory of CAIs through Data Mining, Research, and Territory inputs
- Maintain web- based CAI portal for institutions to interactively add or confirm attribution, location and enter broadband-specific information.
- Maintain Inventory of CAIs through Data Mining, Research and Territory inputs.
- Maintain outreach campaign via mail, e-mail or other means as necessary (group conferences, etc.).

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- Upload web-based data to Core Database for internal cleansing and processing.
- Translate internal data to deliverable ready format.
- Identify internal data.
- Create secondary campaign to target CAIs who have not responded and repeat as necessary.

Process for Data Integration

Contractor has developed robust data integration and processing mechanisms that effectively translate incoming data sources to the product deliverables. This process allows for multiple types of inputs and results in a standardized output that meets the requirements for the Territory and NTIA deliverables. This process will continue to be modified and/or enhanced to suit the needs of the project continuation in years 3-5.

- Receive Inputs from Providers via SFTP
- Load source material into Sourcing Database and catalog with Provider information.
- Categorize input into data type category (addresses, block lists, coverage areas, paper maps, etc.).
- Process input based on data type into core standardized format in Staging Database.
- Create Compact Polygons (CP)—(internal methodology for generating area based feature for coverage in Staging Database).
- Apply broadband attribution to CP.
- Apply metadata to CP.
- Compare coverage area to available commercial collateral.
- Compare coverage area to third-party data sets.
- Request for more information if required data elements are missing or coverage discrepancies exist to sourcing team for follow-up with Provider.
- Load CP to Core Database.
- Process coverage area to build Census Block and Street Level geography for deliverable input.
- Process Middle Mile attribution.
- Process input data into Service Overview internal format.
- Process CAI data input into internal format.
- Create Product Deliverable based on NTIA and Territory-level requirements and according to MapConnect™ Broadband specification.

Data Display and Data Delivery

Contractor has developed processes that allow for standard delivery of Static NTIA and Territory deliverables as well as an Online Web application for use by the Territory for their Broadband Mapping Program giving access to internal Territory stakeholders as well as the general public.

- **Static Deliverables to Territory and NTIA:**
Contractor has developed the MapConnect™ Broadband specification that mirrors the NSGIC File Geodatabase model for the broadband layers and has been successfully delivered to the satisfaction of the NTIA and Territory Partners. This process will continue and enhancements/modifications will be made as necessary throughout the continuation of this project under this request for continuation.
- **Online Web Mapping Application:**
Contractor is in the process of developing and maintaining Territory Level Broadband Mapping Portals that allow on-line interactive maps to suit the needs of the Territory's broadband mapping applications. Under this proposal, this activity will continue through

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years 3-5 with additional modification and/or enhancements as directed by the Territory and NTIA stakeholders.

Data Verification

Contractor has developed a holistic approach to data validation. Following the initial mapping of providers' coverage area and serviceability claims, the project team deploys the following methods for verification of data. This activity will continue through years 3-5 under this proposal.

- **Third-Party Data Verification:** Visually and programmatically compare the coverages against third-party aggregate data.

Third-Party Data	Data Product
Media Prints	Cable Boundaries
American Roamer	Wireless Provider Footprints
Pitney Bowes	Telco Exchange Boundaries Central Office Locations
ComSearch	Spectrum Holdings License Boundaries

- **Broadband Provider Feedback Loop:** Allow carriers to review their data displayed through a controlled web interface to ensure that accurate information was supplied.
- **Sampling:** Creating a geographically distributed sample set of locations for which a follow-up survey will be conducted surveying business and residential consumers through various means such as direct calling, online surveying and e-mail campaigns.
- **Crowd Sourcing:** This is also deployed via the web to the public in order to solicit location, serviceability and Internet diagnostics that can be gleaned (i.e. speed tests).

Security and Confidentiality

Contractor does not propose any changes to its current methodologies for handling of Confidential Information. To address data security and confidentiality, we will be using the security, access-control, authentication and authorization services built into many of the applications described herein. In brief, our security protocol is two-fold: IT-based (role-based user/password and IP-locking as examples) and metadata-based (explicit identification of confidential data within the system to ensure that it is filtered, summarized or otherwise reduced to an acceptably non-confidential level in publicly accessible interfaces).

Address File Development

The two most important geographic data components of the broadband initiative are broadband availability extent and **address location**. Providing accurate tabulation of broadband availability by address or even by Census Block using address information requires locating each address and determining its service. There are numerous methods of locating addresses, each with associated resulting accuracy expectations. Since broadband availability for many technologies can vary even within a large parcel, it is important to locate addresses at as high a positional accuracy as reasonably possible.

It is well understood that not all States and Territories have at their disposal highly accurate address data that can be leveraged for this purpose and the Territory is no exception. Particularly in States with larger rural populations and underdeveloped GIS systems, this problem is pervasive. In addition, while TIGER/Line® files are readily available, they are not at the level of accuracy or completeness

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needed to satisfy the intent of the Broadband Mapping Project. The result of using poor or inadequate address resources in the context of the Broadband Data Mapping project is a skewed or inaccurate view of the actual broadband serviceability for the Territory's residences and businesses at the detailed level.

Proposed Solution

Contractor's approach to solving this problem is through an exhaustive research and compilation methodology that aims to create the most cost-effective and accurate data set, leveraging wherever possible existing address data for this purpose.

The end result of this process will be a Master Address File (MAF) by which all known addresses in the Territory will be identified and correlated with a discrete latitude and longitude for location identification. An address defines the physical location where services (in this case broadband services) are or are not currently delivered. In addition, physical addresses are used for other critical government functions such as emergency 9-1-1 response. The MAF is a fundamental data set that is easily understood by GIS and non-GIS people in the public sector, the private sector and within the public at large. As a key component of this grant application, the project team proposes to augment its broadband service area mapping solution via the collection/acquisition of a complete set of address data points across the Territory.

The Project Team's approach to creating a MAF is a pragmatic approach that balances the need for good addresses (as a fundamental basis for understanding broadband availability and gaps) against the limitations posed by schedule and budget.

Approach

- Evaluate all available address sources (i.e. Commercial address sources, Parcel data layers, UPSP, Territory, County and Local government sources) by working with data providers and Territory /local entities.
- Standardize Sources into a single spatial reference (geocoded as necessary).
- Stitch Sources into one exhaustive file.
- Perform Gap Analysis—address file completeness and locational accuracy studies.
- Fill Gap: Use various approaches to complete a comprehensive file (this can be done through source acquisition or source build out depending upon availability and quality).
- Ingestion: As all "Fill Gaps" techniques generate data, it needs to be merged back into the core data set appropriately. This has several sub-steps:
 - Conflation: automated resolution of multiple sources for the same features, attributes and geographic areas.
 - Editing: manual or semi-automated editing of the data.
 - Conflict resolution: this is also editing, but guided by conflicts detected during quality tests throughout the ingestion process.
- MAF Build and Extraction: Once the database is fully built and passes all quality tests, it is then extracted into the ultimate product model and format.
- Quality Control: This can include field validation as well as imagery evaluation techniques and crowd sourcing activities.
- Create a maintenance system and program for the continual stewardship of the data for use beyond the scope of this project.

Key Benefits

- Higher level of accuracy for broadband data reporting and planning activities.
- Single repository of Territory Address inventory to support multiple Territory agency needs.
- Consistency of location information across Territory agencies.

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Other SBDD Grant Purposes

Other Name: Broadband & Geospatial Data Clearinghouse

Execute the design, development, and deployment activities needed to accelerate Broadband application development and usage throughout Territory by creating the Broadband & Geospatial Data Clearinghouse. This project will serve as an extension of existing GIS repository capabilities and as an incremental application serving Territory based GIS / Geospatial data needs supporting identified Broadband requirements.

Funds Awarded:

\$0

Funds Requested:

Broadband & Geospatial Data Clearinghouse - \$324,750

Problem:

Currently critical broadband and geospatial data, applications and tools from varying sources reside in different environments and are not easily integrated for use. All levels of government within the Territory have data and tools that could prove useful to other government entities and constituents within the Territory and nationally, but these resources are typically not known or, if they are known, accessing these resources is cost prohibitive and technically challenged.

Solution:

The Territory requires a solution consisting of a “Broadband & Geospatial Data Clearinghouse” to address the key Broadband and GIS assets from each geospatial data initiative and create a set of portal services where all critical data, applications and tools can coexist in a common, linked repository. Once deployed, a fully functional clearinghouse will impact all areas of government within the Territory utilizing Broadband or Geospatial data.

The clearinghouse application will focus on incrementally reposing data associated with demographic and asset sub-categories that are critical in supporting Broadband policy effectiveness and analytical insight. The following features are incorporated into the clearinghouse solution:

Feature	Description
Common Services	The clearinghouse will come with public and secure access portals. Common portal services will incorporate a permission-based user approach to include: read, contribute, edit, download, delete. The portal will incorporate secure dialog / interaction services to enhance its utility (e.g., comment blog, remediation request, and knowledgebase).
Data File Catalog	The Territory-wide Data File Catalog is the starting and ending point for GIS data providers and consumers in the Territory. The Clearinghouse accepts and catalogs GIS data and captures metadata through an intuitive and user friendly interface.
Open Geospatial Consortium (OGC) Web Feature	An Open Geospatial Consortium (OGC) Web

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Feature	Description
Service (WFS)	Feature Service (WFS) provides an interface allowing requests for geographical features across the web using platform-independent calls and defines interfaces for describing data manipulation operations of geographic features.
Application Catalog	The Applications Catalog is a listing of applications that can consume data files and web map services in the data clearinghouse, by data theme. Each application listed indicates its version, metadata, and any available supporting documentation.
Maps Catalog	The Maps Catalog is a listing of static maps in the data clearinghouse, by data theme. Many data formats are supported, including PDF and JPG. Registered users can search or browse for maps, load new maps, and update existing maps. Users can also choose to include metadata and supporting documentation with their map downloads, which also indicate version and date.

The solution will utilize a three-phase concept-to-deploy (C2D) approach. The C2D approach optimizes resources by collapsing several components of an enhancement / development program into a more streamlined set of activities supporting rapid design and delivery.

The C2D approach includes:

Concept Phase: In this phase a series of information requests and data gathering exercises are conducted with the support of the Territory to inventory Broadband availability and critical infrastructure information, identify owners of this information, assess the environments associated with the data, understand the utilization of the data and discover the means by which Broadband availability and critical infrastructure are integrated into services and managed for consumption. The outcome of this phase is a conceptual clearinghouse delivery model that identifies the scope and focus as well as finalization of all data acquisition tasks required to mobilize the clearinghouse environment.

Iteration Phase: In this phase engineers, portal developers, solution analysts and content specialists perform a series of iterative design/build activities to establish the clearinghouse environment, organize data sources, populate portal services, formalize data management services and establish portal security services. The outcome of this phase is a user-ready Broadband availability and critical infrastructure clearinghouse.

Deployment Phase: In this phase a series of testing activities, service initialization and user interactions are managed to ensure the integrity of the clearinghouse and provision access to the clearinghouse. In addition, critical change management activities and training associated with using the clearinghouse to support Broadband availability data needs and capture feedback from the user population that can be incorporated into a larger clearinghouse program. The outcome of this phase is a production clearinghouse servicing the needs of both the general population and those of the State, Regional and Municipal governments as well as the Broadband service providers.

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The end-state deliverable is a functional production Broadband & Geospatial Data Clearinghouse that is jointly managed by the Territory and BroadMap during the program period and represents the design framework and value drivers identified during the Concept Phase.

Schedule and Deliverables

Phase	Deliverable	Description
Concept (8 – 12 Weeks)	Clearinghouse Concept Specification	Design-ready specification that defines /validates all services, content, assets and utilization profile for the clearinghouse.
	Inventory of all Broadband Availability and Critical Infrastructure Assets	Comprehensive listing of Assets, owners, license rights, update schedule, utilization profile and data dictionary for all possible assets.
Iteration (16 – 20 Weeks)	Portal Framework	Design and inventory of portal “look & feel” in combination with all defined services required to enable portal.
	Portal Content	Narrative text and publishing method for all content.
	Broadband Availability Assets	The data sets, data dictionaries, map visualizations, reports, tools to be represented and made available via the portal.
	Portal Services Specification	Technical definition and development criteria for all services made available through the portal and required to support the portal environment.
Deployment (4 – 8 Weeks)	User Inventory	Listing of all user levels and user criteria necessary to establish security services and data services within the portal.
	Training Plan and Content	The means and material that will be used to educate users and ensure a positive user experience during the Deployment.
	Production go-live Plan	A structured set of activities and checklist that ensures a flawless go-live of the clearinghouse.
Enhancement & Maintenance / Operations (62 Weeks)	Clearinghouse Functionality	Additional functionality integrated into the clearinghouse based on user requirements; maintenance of environment and transition of capability into Territory GIS area.

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Phase	Deliverable	Description
Transition (8 weeks)	Work Plan & Operational Clearinghouse	A structured set of activities, content, artifacts and standardized production support processes that enable Territory IT operations.

Outcomes and Benefits:

A key outcome of the Territory’s “Broadband & Geospatial Data Clearinghouse” project is alignment with the broader efforts of the Federal Geographic Data Committee (FGDC), under Presidential Executive Order 12906 that defined the National Spatial Data Infrastructure (NSDI) as “the technology, policies and standards necessary to acquire, store and distribute critical geospatial data.” This is further detailed in the Office of Management and Budget (OMB) Circular A-16. The NSDI “assures that all critical spatial data and applications from multiple sources (federal, state, local and tribal governments, academia and the private sector) are available and easily integrated.”

With this, the NSDI in coordination with the Nation States Geographic Information Council (NSGIC) created the Fifty States Initiative. The clearinghouse strategy is to implement an appropriate model for Territory-wide coordination of geospatial information, technologies and data production. A fully functioning clearinghouse with the appropriate inventory, editing, application and distribution tools will be made available to all interested sectors within the Territory, which is also aligned with another key open government solution, data.gov.

A clear benefit from the Clearinghouse is its utility as a portfolio of GIS data links and geospatial data sets as well as an environment that incorporates application / tool capabilities to enable authorized users view and create data analysis relevant to Broadband and geospatial data initiatives. The clearinghouse application services / tools will incorporate both analytical services such as demographic/economic analysis and Broadband asset analysis (e.g., tower data, telecomm boundaries) as well as infrastructure tools that allow user to contribute GIS assets and coordinate feedback and authorization for these assets.

Another benefit from the Clearinghouse will be harmonization across a common data dictionary and meta-data layers associated with GIS services and geospatial data. This will be achieved over time applying data stewardship principles combined with automated extract / transform / load (ETL) capabilities. The harmonization benefit supports value via applying naming conventions and data relationships across geospatial data in a standardized format for a common GIS data model at the Territory level in agreed to GIS data domains. The outcome of harmonization will be the fact that the same GIS information acquired from separate in-Territory repositories will no longer deliver different results requiring additional remediation efforts and analysis to determine the correct answer. Users, analysts and policy stakeholders can be confident in a single “database of record” for key GIS data elements.

Cost:

The cost of the proposed project consists of dedicated labor across several collaborators and Territory entities, hardware and software to develop and support the new environment and travel to facilitate the design and deployment of the new environment.

The estimated cost for this project is \$324,750 based on the new development of a Broadband & Geospatial Data Clearinghouse with much of the technical infrastructure provided by the Territory.

SBDD Grant Application – U.S. Territory of Guam

SBDD Purpose:

The primary purpose for this project is to facilitate an environment that enables information exchange regarding use and demand for broadband services between public and private sector users. Additionally, this project extends Territory geospatial data capabilities with a series of applications and tools that enable data contribution, data feedback loops and data analysis capabilities. The clearinghouse platform facilitates the exchange, utility and value of broadband data between the public and private sector.

Project Proposal Fit with the Territory’s Digital Economy Approach

The digital economy in the Territory represents the network of economic and social activities that are enabled by platforms requiring access to broadband services. A successful digital economy is essential for the Territory's economic growth and our ability to enhance the quality of life for our citizenry. Incrementally, the digital economy is a driver of the enduring effectiveness and competitiveness of the Territory's businesses, educational institutions, social institutions, and public service capabilities. The Territory’s comprehensive approach in leading digital economy efforts is to offer new opportunities for businesses, policy makers, and individuals to connect, collaborate, and increase the productivity of these interactions toward the well being of our entire citizenry regardless of proximity to major cities. The Territory is committed to maximizing opportunities for all citizens to benefit from the digital economy via stewardship, effective policy making and strategic infrastructure investments. This commitment reflects the Territory’s recognition that a world-class digital infrastructure is a key input for our future—similar to electricity, gas and water.

However, to fully develop the Territory’s digital economy, it is essential to understand, steward and accurately represent the current capabilities of our digital infrastructure and how broadband services play a role in accessing this economy. To realize the benefits of what the digital economy represents, the Territory maintains it must take steps to achieve the maximum participation of Territory households, businesses and institutions in the digital economy. Through the SBDD grant projects identified for the Territory, it is our intent to begin realizing digital economy benefits and continue positioning opportunities for businesses and individuals to participate in the digital economy.

Through the Territory’s “Data Collection and Related Activities” project area including **Repeated Data Updating** and **Address File Improvement** projects, the Territory continues the stewardship role for understanding and enhancing its broadband service inventory while introducing mapping accuracy enhancements via address file improvements. Creating and delivering the most accurate and geographically relevant map visualizations / geospatial data representations enables policy makers, infrastructure suppliers, businesses and individuals to pursue and influence new opportunities and interactions in support of broadband investment and deployment efforts. The SBDD Grant Funds applied for in this area support the evolution of our digital economy efforts by sustaining our existing geospatial data and digital mapping capabilities while supporting the policy development required to enhance broadband connectivity and service level improvement. Additionally, these funds sustain our ongoing submission of data to National Broadband Mapping efforts in support of broader economic and social objectives.



Office of the Governor of Guam

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Felix P. Camacho
Governor

Michael W. Cruz, M.D.
Lieutenant Governor

11 AUG 2009

National Telecommunications and Information Administration
U.S. Department of Commerce
1401 Constitution Avenue, N.W.
Room 4898
Washington, DC 20230

Re: RIN 0660-ZA29 | Designation of Eligible Entity

This letter represents the official designation of One Economy Corporation as an entity that the territory of Guam has authorized to apply for grants as set forth in the Notice of Funding Availability for the National Telecommunications and Information Administration State Broadband Data and Development Grant Program (RIN 0660-ZA29). This refers specifically to Section V of RIN 0660-ZA29 and the Broadband Data Improvement Act § 106(i)(2)(B), 122 Stat. at 4102.

One Economy Corporation will certify that it is in full compliance with the audit process through the U.S. General Accountability Office, Government Auditing Standards, and OMB Circular A-133.

Sincerely,

MICHAEL W. CRUZ, M.D.
I Maga'låhen Guåhan, para pa'go
Acting Governor of Guam

State Broadband Data and Development Grant Program – Data Collection and Address Improvement U.S. Territory of Guam

Budget Narrative – Data Collection and Address Improvement

The U.S. Territory of Guam, having designated One Economy as its eligible entity for the SBDD Program, is requesting federal grant monies of \$668,450 for years 2 thru 5 of the SBDD program to support data collection and address improvement efforts. One Economy and its partners offer a budget estimate based on a detailed analysis of the resources required to accomplish the Data Collection and Address Improvement Project (Project) tasks over the SBDD performance period (years 2 thru 5), considering timeline, delivery requirements, and available non-federal matching contributions as summarized in the program narrative. This section provides a summary of the budget and an overview of the budgeting process, explanation of how the financial figures were determined, and how the allocation of resources was provisioned to assure project feasibility.

This Project requires additional contract personnel to develop a Clearinghouse for the Territory. The Department will contract to dispatch a core digital mapping and geospatial data staff along with clearinghouse development staff to define and meet the requirements for Data Collection and Address Improvement for the Territory as per the following financial schedules:

Data Collection Schedule

REQUESTED BUDGET	Federal	Match	Total
Personnel Salaries	\$0	0	\$0
Fringe Benefits	\$0	0	\$0
Travel	0	0	\$0
Equipment	37,500	0	\$37,500
Supplies	110,850	86,250	\$197,100
Subcontracts	160,600	-	\$160,600
<i>Construction</i>	<i>0</i>	<i>0</i>	<i>0</i>
Other	0	0	\$0
Total Direct Costs	\$308,950	\$86,250	\$395,200
Total Indirect Costs	0	\$0	\$0
Total Costs	\$308,950	\$86,250	\$395,200
% Federal Share	78.18%		
% Applicant Share		21.82%	

State Broadband Data and Development Grant Program – Data Collection and Address Improvement U.S. Territory of Guam

Address Improvement Schedule

REQUESTED BUDGET	Federal	Match	Total
Personnel Salaries	\$0	0	\$0
Fringe Benefits	\$0	0	\$0
Travel	4,500	0	\$4,500
Equipment	16,360	0	\$16,360
Supplies	0	-	\$0
Subcontracts	338,640	38,400	\$377,040
<i>Construction</i>	<i>0</i>	<i>0</i>	<i>0</i>
Other	0	0	\$0
Total Direct Costs	\$359,500	\$38,400	\$397,900
Total Indirect Costs	0	\$60,935	\$60,935
Total Costs	\$359,500	\$99,335	\$458,836
% Federal Share	78.35%		
% Applicant Share		21.65%	

The Department and its partners' capabilities, capacities, knowledge, and experience are described in terms of the its collective reach and the depth of the technical bench in its partnering consortium. Additionally, to assure feasibility, the Department prepared the budget based on detail analysis of the resources required to accomplish the tasks over the performance period, considering timeline delivery requirements, and the 20 percent non-federal matching contributions. To ensure meeting timelines for the deliverables, significant resources will be allocated during the first year of this project.

Budgeting Process and Narrative

Budget determination was done using a detailed resource planning process. A detailed spreadsheet accompanying this application supports how the overall estimates were derived. This section provides a summary of the process and the overall structure of the budget.

Human Resources Cost: To begin with, technical requirements to accomplish each task were examined by the Team. Each resource area then provided a detailed Cost Structure necessary to accomplish the tasks (details provided under the Personnel section) and any inter-dependencies among the tasks.

Next, the information from all resource areas were compiled into a comprehensive plan, and cross referenced again for inter-dependencies. As a result, a detailed comprehensive Cost Structure was developed.

State Broadband Data and Development Grant Program – Data Collection and Address Improvement U.S. Territory of Guam

The comprehensive Cost Structure was then checked against the timeline constraints imposed on the deliverables to identify the optimal number of resources required to meet the deadlines. As a result, an overall Project Plan was developed to identify the project’s *Critical Path* and derive resources needed to meet the project milestones. These resources were then mapped to the level of skills required for each task and to the cost for each skill set (including sub-contract personnel cost) to devise the budget for the human resources. A Fringe Benefit rate of 30% was used, where applicable, to include healthcare, social security, workers’ compensation, vacation, and retirement for non-contract labor.

Hardware and Software Cost: No new incremental Hardware or Software is required to support repeated data collection activities. A hosting fee will continue to apply to the data collection environment through the performance period. In the case of the address improvement project, several address capture software and GPS hardware components are required to support requirements for American Samoa. These components are listed at published prices in support of budget forecast.

During the performance period, the vendor will host development, test and production environments for data collection and address improvement efforts. For this project, one database server with Direct Attached Storage disk array, one ArcIMS map server, one Application Server, and one Web Server were provisioned. Software licenses for ArcIMS software were estimated based on the hardware. Detail is provided below.

Equipment					
Yuma Tablet w/ accessories	(b) (4)				
TruPulse 360B Laser Range Finder					
Misc cables / adaptors (USB 2 DE9)					
ArcGIS (ArcView)					
ArcPad w/GPScorrect					
Total					

State Broadband Data and Development Grant Program – Data Collection and Address Improvement U.S. Territory of Guam

Data Sources: As part of the ongoing data collection, a MapConnect™ Enterprise Base Map will be provided with address point layers. The license for this map product is included for the performance period with terms / conditions that allow for multiple users, internet display and quarterly updates. A perpetual use premium term for this license is applied at the end of the period as in-kind match for the Clearinghouse project. Financial elements for data sources include:

Category	Estimate Description	Quantity	Unit Price	Performance Period Total
Base Map Data	MapConnect Enterprise™ - Territory of AS; Multiuser, Internet Display / Geocode; Quarterly Updates	1	(b) (4)	
Base Map Data	Perpetual Usage Premium for Base Map at MSRP factor of 2x – In-Kind	1		

Travel Cost: Similarly, number and frequency for travel estimated used to derive the cost based on the federal government’s published rules and regulations.

Data Collection and Address Improvement Field Work

Travel expenses will be incurred for vehicle mileage and expenses while field work for address improvement efforts occurs. Annual budgets for this work were derived based on prevailing mileage rates and casual meal allowances.

Travel	Year 2	Year 3	Year 4	Year 5	
<i>In-State</i>	1,500	1,500	750	750	\$4,500

Indirect Costs: There are no indirect costs associated with this budget.

State Broadband Data and Development Grant Program – Data Collection and Address Improvement U.S. Territory of Guam

Matching Contributions: A matching contribution in-kind of over \$184,000 is estimated for this project and will be met through a combination of labor and data in-kind as per the following schedule:

Personnel Salaries					
Guam 3 Roles; Program Oversight & Data Analyst @ 2 hour per week @ 4 years @ \$40/hr	11,520	11,520	11,520	11,520	\$46,080
Total	11,520	11,520	11,520	11,520	\$46,080
Fringe Benefits (@ 29%)					
Guam 3 Roles; Program Oversight & Data Analyst @ 2 hour per week @ 4 years @ 29% Fringe	3,341	3,341	3,341	3,341	\$13,363
Total	3,341	3,341	3,341	3,341	\$13,363
Subcontracts					
BroadMap Executive Oversight, Risk Management & Performance Management; 1 role @ (b) (4)	(b) (4)				
Total					
Supplies					
MapConnect Enterprise - Premium for Perpetual User License					
Total					

Total In-Kind Estimated	\$184,093
Total In-Kind Required	\$167,113

Labor in-kind is achieved during the performance period via the allocation of risk management and oversight activities by both Guam and the data collection and address improvement vendor. The roles associated with these activities will be fully absorbed by each party with no invoice for the fees, salaries, or fringe associated with the activities performed by these roles and documentation of role activities via time entry system and project meeting minutes.

Data in-kind is achieved during the performance period by the transfer of perpetual map data rights to the Territory as part of the Clearinghouse project. The perpetual right value is priced in the market place at a premium of 2x the annual user license fee for the period. In the case of AS, the annual license fee will be (b) (4) with an aggregate fee for the three year period of (b) (4). The in-kind value of (b) (4) for the transfer of perpetual user rights will be the net of the perpetual user fee license of (b) (4) minus the annual fees already paid during the performance period of (b) (4).

Due to the Guam’s administration of the grant, an indirect cost of 16.95% will be required for administration purposes. At the direct costs of \$668,450, the Guam will require \$60,935. However, \$42,463 of this will be waived to meet the matching requirement of the grant.

GRANTEE NAME: (STATE INITIAL) NAME OF GRANTEE

Directions: For each sheet, please edit the cells that are empty, not the cells with the grey background.

PLEASE ENTER YOUR EXISTING, APPROVED BUDGET BELOW. It should match your current SF 424.

EXISTING BUDGET	Federal	Match	Total
Personnel Salaries	0	0	\$0
Fringe Benefits	0	0	\$0
Travel	0	0	\$0
Equipment	0	0	\$0
Supplies	0	0	\$0
Subcontracts	0	0	\$0
Construction	0	0	0
Other	0	0	\$0
Total Direct Costs	\$0	\$0	\$0
Total Indirect Costs	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0
% Federal Share	#DIV/0!		
% Applicant Share		#DIV/0!	

PLEASE DO NOT ENTER TEXT BELOW. It will populate automatically after you complete the other sheets.

REQUESTED BUDGET	Federal	Match	Total
Personnel Salaries	\$0	46,080	\$46,080
Fringe Benefits	\$0	13363.2	\$13,363
Travel	4,500	0	\$4,500
Equipment	16,360	0	\$16,360
Supplies	0	-	\$0
Subcontracts	338,640	38,400	\$377,040
Construction	0	0	0
Other	0	0	\$0
Total Direct Costs	\$359,500	\$97,843	\$457,344
Total Indirect Costs	0	\$0	\$0
Total Costs	\$359,500	\$97,843	\$457,344
% Federal Share	78.61%		
% Applicant Share		21.39%	

(STATE INITIAL) NAME OF GRANTEE	Fed Request as % of total project cost:					78.61%
NEW FEDERAL REQUEST ONLY	Project Yr 2	Project Yr 3	Project Yr 4	Project Yr 5	Total	
Personnel Salaries						
	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	
Total	0	0	0	0	\$0	0
Fringe Benefits						
	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	
Total	0	0	0	0	\$0	0
Travel						
<i>In-State</i>	1,500	1,500	750	750	\$4,500	
<i>Out-of-State</i>					\$0	
Total	1,500	1,500	750	750	\$4,500	4,500
Equipment						
Yuma Tablet w/ accessories	(b) (4)					
TruPulse 360B Laser Range Finder	(b) (4)					
Misc cables / adaptors (USB 2 DE9)	(b) (4)					
ArcGIS (ArcView)	(b) (4)					
ArcPad w/GPScorrect	(b) (4)					
Total	(b) (4)					
Supplies						
					\$0	
					\$0	
					\$0	
					\$0	
Total	0	0	0	0	\$0	0
Subcontracts						
Program Management						
Program Manager (b)	(b) (4)					
Source Evaluation	(b) (4)					
Data Sourcing Manager (b)	(b) (4)					
Data Analyst @ (b)	(b) (4)					
Address Source Standardization and Compilation	(b) (4)					
Data Analyst (b)	(b) (4)					
Applications and Tools Engineer (b)	(b) (4)					
Address Gap Analysis	(b) (4)					
Data Analyst (b)	(b) (4)					
Address Source Generation (Fill Gap)	(b) (4)					
Data Sourcing Manager (b)	(b) (4)					
Data Analyst (b)	(b) (4)					
Applications and Tools Engineer (b)	(b) (4)					
Field Collection/Validation (b)	(b) (4)					
Address Source Ingestion	(b) (4)					
Data Analyst (b)	(b) (4)					
Applications and Tools Engineer (b)	(b) (4)					
MAF Generation	(b) (4)					
Applications and Tools Engineer (b)	(b) (4)					
Quality Control	(b) (4)					
Quality Specialist (b)	(b) (4)					
Maintenance System Development	(b) (4)					
Applications and Tools Engineer (b)	(b) (4)					
Total	(b) (4)					
<i>Construction</i>						
Other					\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Total Direct Costs	(b) (4)					
Total Indirect Costs		0	0	0	\$0	
Total Costs	(b) (4)					

(STATE INITIAL) NAME OF GRANTEE	Match as % of total project cost: 21.39%				
PROPOSED MATCH FOR NEW FEDERAL FUND REQUEST	Project Yr 2	Project Yr 3	Project Yr 4	Project Yr 5	Total
Personnel Salaries					
Guam 3 Roles; Program Oversight & Data Analyst @ 2 hour per week @ 4 years @ \$40/hr	11,520	11,520	11,520	11,520	\$46,080
	0	0	0	0	\$0
	0	0	0	0	\$0
Total	11,520	11,520	11,520	11,520	\$46,080
Fringe Benefits (@ 29%)					
Guam 3 Roles; Program Oversight & Data Analyst @ 2 hour per week @ 4 years @ 29% Fringe	3,341	3,341	3,341	3,341	\$13,363
	0	0	0	0	\$0
	0	0	0	0	\$0
Total	3,341	3,341	3,341	3,341	\$13,363
Travel					
<i>In-State</i>	0	0	0	0	\$0
<i>Out-of-State</i>	0	0	0	0	\$0
Total	0	0	0	0	\$0
Equipment					
	0	0	0	0	\$0
	0	0	0	0	\$0
	0	0	0	0	\$0
Total	0	0	0	0	\$0
Supplies					
					\$0
					\$0
					\$0
Total	0	0	0	0	\$0
Subcontracts					
BroadMap Executive Oversight, Risk Management & Performance Management, 1 role (b) (4)	(b) (4)	(b) (4)	(b) (4)	(b) (4)	(b) (4)
	0	0	0	0	\$0
	0	0	0	0	\$0
Total	(b) (4)	(b) (4)	(b) (4)	(b) (4)	(b) (4)
<i>Construction</i>	0	0	0	0	\$0
Other					
	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
Total	0	0	0	0	\$0
Total Direct Costs	(b) (4)	(b) (4)	(b) (4)	(b) (4)	(b) (4)
Total Indirect Costs	0	0	0	0	\$0
Total Costs	(b) (4)	(b) (4)	(b) (4)	(b) (4)	(b) (4)

GRANTEE NAME: (STATE INITIAL) NAME OF GRANTEE

Directions: For each sheet, please edit the cells that are empty, not the cells with the grey background.

PLEASE ENTER YOUR EXISTING, APPROVED BUDGET BELOW. It should match your current SF 424.

EXISTING BUDGET	Federal	Match	Total
Personnel Salaries	0	0	\$0
Fringe Benefits	0	0	\$0
Travel	0	0	\$0
Equipment	0	0	\$0
Supplies	0	0	\$0
Subcontracts	0	0	\$0
Construction	0	0	0
Other	0	0	\$0
Total Direct Costs	\$0	\$0	\$0
Total Indirect Costs	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0
% Federal Share	#DIV/0!		
% Applicant Share		#DIV/0!	

PLEASE DO NOT ENTER TEXT BELOW. It will populate automatically after you complete the other sheets.

REQUESTED BUDGET	Federal	Match	Total
Personnel Salaries	\$0	0	\$0
Fringe Benefits	\$0	0	\$0
Travel	0	0	\$0
Equipment	37,500	0	\$37,500
Supplies	110,850	86,250	\$197,100
Subcontracts	160,600	-	\$160,600
Construction	0	0	0
Other	0	0	\$0
Total Direct Costs	\$308,950	\$86,250	\$395,200
Total Indirect Costs	0	\$0	\$0
Total Costs	\$308,950	\$86,250	\$395,200
% Federal Share	78.18%		
% Applicant Share		21.82%	

(STATE INITIAL) NAME OF GRANTEE	Fed Request as % of total project cost:					78.18%
NEW FEDERAL REQUEST ONLY	Project Yr 2	Project Yr 3	Project Yr 4	Project Yr 5	Total	
Personnel Salaries						
	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	
Total	0	0	0	0	\$0	0
Fringe Benefits						
	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	
Total	0	0	0	0	\$0	0
Travel						
<i>In-State</i>	0	0	0	0	\$0	
<i>Out-of-State</i>					\$0	
Total	0	0	0	0	\$0	0
Equipment						
Hosted Portal Environment, Portal Suite, Arc GIS Image/Map	(b) (4)				\$0	
					\$0	
Total	(b) (4)					
Supplies						
MapConnect Enterprise	(b) (4)					
Spectrum Holdings for Wireless Providers						
Wireless Marketed Coverage Patterns						
Wire Center Boundaries						
Tower Maps						
Total						
Subcontracts						
Project Management & Collaboration					\$0	
Program Manage (b)	(b) (4)					
Technical Project Manager (b)						
Broadband Spatial Data Collection						
Database & Requirements Engineer (b)	0	0	0	0	\$0	
Database Administrator (b)	0	0	0	0	\$0	
Data Sourcing Manager (b)	0	0	0	0	\$0	
Data Update, Verification and Validation						
GIS Systems and Mapping Engineer (b)	(b) (4)					
Applications and Tools Engineer (b)						
Geo-coding and Conflation Engineer (b)						
Sr. Quality Control Manage (b)						
Data Analyst (b)						
Database & Requirements Engineer (b)						
Database Administrator (b)						
Data Sourcing Staff (b)						
Broadband Mapping Application & Planning						
Senior Web Designer(s) (b)						
Cartographic Specialist (b)						
Data Analyst(s) (b)						
Total	(b) (4)					
<i>Construction</i>	0	0	0	0		
Other					\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Total Direct Costs	(b) (4)					
Total Indirect Costs	0	0	0	0	\$0	
Total Costs	(b) (4)					

(STATE INITIAL) NAME OF GRANTEE		Match as % of total project cost: 21.82%				
PROPOSED MATCH FOR NEW FEDERAL FUND REQUEST	Project Yr 2	Project Yr 3	Project Yr 4	Project Yr 5	Total	
Personnel Salaries						
	0	0	0	0	\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Fringe Benefits (@ XX%)						
	0	0	0	0	\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Travel						
<i>In-State</i>	0	0	0	0	\$0	
<i>Out-of-State</i>	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Equipment						
	0	0	0	0	\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Supplies						
MapConnect Enterprise - Premium for Perpetual User License	0	(b) (4)				
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	(b) (4)				
Subcontracts						
					\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
<i>Construction</i>	0	0	0	0	\$0	
Other						
	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	
Total	0	0	0	0	\$0	0
Total Direct Costs	0	(b) (4)				
Total Indirect Costs	0	0	0	0	\$0	
Total Costs	0	(b) (4)				

GRANTEE NAME: (STATE INITIAL) NAME OF GRANTEE

Directions: For each sheet, please edit the cells that are empty, not the cells with the grey background.

PLEASE ENTER YOUR EXISTING, APPROVED BUDGET BELOW. It should match your current SF 424.

EXISTING BUDGET	Federal	Match	Total
Personnel Salaries	0	0	\$0
Fringe Benefits	0	0	\$0
Travel	0	0	\$0
Equipment	0	0	\$0
Supplies	0	0	\$0
Subcontracts	0	0	\$0
Construction	0	0	0
Other	0	0	\$0
Total Direct Costs	\$0	\$0	\$0
Total Indirect Costs	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0
% Federal Share	#DIV/0!		
% Applicant Share		#DIV/0!	

PLEASE DO NOT ENTER TEXT BELOW. It will populate automatically after you complete the other sheets.

REQUESTED BUDGET	Federal	Match	Total
Personnel Salaries	\$0	46,080	\$46,080
Fringe Benefits	\$0	13,363	\$13,363
Travel	13,050	0	\$13,050
Equipment	43,700	0	\$43,700
Supplies	0	0	\$0
Subcontracts	268,000	28,800	\$296,800
Construction	0	0	0
Other	0	0	\$0
Total Direct Costs	\$324,750	88,243	\$412,993
Total Indirect Costs	0	\$0	\$0
Total Costs	\$324,750	\$88,243	\$412,993
% Federal Share	78.63%		
% Applicant Share		21.37%	

(STATE INITIAL) NAME OF GRANTEE	Fed Request as % of total project cost:					78.63%
NEW FEDERAL REQUEST ONLY	Project Yr 2	Project Yr 3	Project Yr 4	Project Yr 5	Total	
Personnel Salaries						
	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	
Total	0	0	0	0	\$0	0
Fringe Benefits						
	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	
Total	0	0	0	0	\$0	0
Travel						
<i>In-State</i>	0	0	0	0	\$0	
<i>Out-of-State</i>		10,350	0	2,700	\$13,050	
Total	0	10,350	0	2,700	\$13,050	13,050
Equipment						
Hosted Portal Environment, Portal Suite, Arc GIS Image/Map		(b) (4)				
					\$0	
					\$0	
Total	0	(b) (4)				
Supplies						
	0	0	0	0	\$0	
					\$0	
					\$0	
Total	0	0	0	0	\$0	0
Subcontracts						
Common Services Analyst		(b) (4)				
Delivery Project Manager						
GIS Analyst						
GIS Engineer						
Portal Developer						
Program Manager						
RDBMS Developer						
Testing Specialist / System Admin						
	0				\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	(b) (4)				
<i>Construction</i>	0	0	0	0		
Other					\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Total Direct Costs	0	(b) (4)				
Total Indirect Costs	0	0	0	0	\$0	
Total Costs	0	(b) (4)				

(STATE INITIAL) NAME OF GRANTEE		Match as % of total project cost: 21.37%				
PROPOSED MATCH FOR NEW FEDERAL FUND REQUEST	Project Yr 2	Project Yr 3	Project Yr 4	Project Yr 5	Total	
Personnel Salaries						
Guam Technical Analyst @ .25 FTE @ \$40/Hr During Performance Period	0	15,360	15,360	15,360	\$46,080	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	15,360	15,360	15,360	\$46,080	46,080
Fringe Benefits (@ 29%)						
	0	4,454	4,454	4,454	\$13,363	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	4,454	4,454	4,454	\$13,363	13,363
Travel						
<i>In-State</i>	0	0	0	0	\$0	
<i>Out-of-State</i>	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Equipment						
	0	0	0	0	\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Supplies						
	0	0	0	0	\$0	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	0	0	0	\$0	0
Subcontracts						
Labor - Clearinghouse Developer; Risk Management & Executive Oversight; 1 role @ 96 Hours @ \$100/Hr @ 3 Years	0	9,600	9,600	9,600	\$28,800	
	0	0	0	0	\$0	
	0	0	0	0	\$0	
Total	0	9,600	9,600	9,600	\$28,800	28,800
<i>Construction</i>	0	0	0	0	\$0	
Other						
	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	
Total	0	0	0	0	\$0	0
Total Direct Costs	0	29,414	29,414	29,414	\$88,243	88,243
Total Indirect Costs	0	0	0	0	\$0	
Total Costs	0	29,414	29,414	29,414	\$88,243	