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

Application for Federal Assistance SF-424	Version 02

* 1. Type of Submission:
- [ ] Preapplication
- [x] Application
- [ ] Changed/Corrected Application

* 2. Type of Application:
- [x] New
- [ ] Continuation
- [ ] Revision

* If Revision, select appropriate letter(s):

* Other (Specify)

* 3. Date Received: 08/18/2009

4. Applicant Identifier: GTA Mapping August 2009

5a. Federal Entity Identifier:

* 5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier: GTA Mapping August 14 2009

8. APPLICANT INFORMATION:

* a. Legal Name: Georgia Technology Authority

* b. Employer/Taxpayer Identification Number (EIN/TIN): 58-2569476

* c. Organizational DUNS: 037190902

d. Address:

* Street1: 47 Trinity Avenue
Street2:
* City: Atlanta
County: Fulton
* State: GA: Georgia
Province:
* Country: USA: UNITED STATES
* Zip / Postal Code: 30334

e. Organizational Unit:

Department Name: Enterprise Governance

Division Name: Broadband

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

Prefix: Mr.
* First Name: Richard
Middle Name:
* Last Name: Calhoun
Suffix: Jr.

Title: Program Director

Organizational Affiliation:

* Telephone Number: 4044635906
Fax Number: 7703574255

* Email: richard.calhoun@gta.ga.gov

| 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

11. Catalog of Federal Domestic Assistance Number:

CFDA Title:

* 12. Funding Opportunity Number:

0660-ZA29

* Title:

Recovery Act - State Broadband Data and Development Grant Program

13. Competition Identification Number:

Title:

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

The State of Georgia all cities,and 159 counties.

* 15. Descriptive Title of Applicant's Project:

The State of Georgia Broadband Mapping and Data Improvement Initiative

Attach supporting documents as specified in agency instructions.

| Add Attachments | Delete Attachments | View Attachments |

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

Application for Federal Assistance SF-424	Version 02

16. Congressional Districts Of:

* a. Applicant GA-005

* b. Program/Project GA-All

Attach an additional list of Program/Project Congressional Districts if needed.

gacongress2006color.pdf   Add Attachment   Delete Attachment   View Attachment

17. Proposed Project:

* a. Start Date: 09/15/2009

* b. End Date: 09/15/2014

18. Estimated Funding ($):

* a. Federal	4,400,000.00
* b. Applicant	0.00
* c. State	880,000.00
* d. Local	0.00
* e. Other	0.00
* f. Program Income	200,000.00
* g. TOTAL	5,480,000.00

* 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   Explanation

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:	Richard

Middle Name:

* Last Name: Calhoun

Suffix: Jr.

* Title: Program Director

* Telephone Number: 4044635906   Fax Number: 7703574255

* Email: richard.calhoun@gta.ga.gov

* Signature of Authorized Representative: Richard Calhoun   * Date Signed: 08/18/2009

Authorized for Local Reproduction

Standard Form 424 (Revised 10/2005)
Prescribed by OMB Circular A-102

Application for Federal Assistance SF-424	Version 02

* Applicant Federal Debt Delinquency Explanation

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

State of Georgia – Georgia Technology Authority

Broadband Mapping Project Abstract

August, 14, 2009

Georgia's strategy for broadband encompasses four particular areas of needed investment by the public and private sectors:

1. Backhaul infrastructure in our 91 counties of persistent poverty
2. Access and backhaul infrastructure statewide in unserved and underserved areas
3. Enable digital literacy, adoption, and utilization statewide
4. Telecommunications data collection, analysis, and mapping statewide

Our proposal to NTIA for the State Broadband Data and Development Grant Program focuses on the fourth item above and is critical to fulfilling our overall strategy for improved economic development in Georgia.

Data is useful only if it is actionable. Therefore we have outlined the actions we anticipate needing to take based on this data.

Federal Minimums:

- ID unserved and unserved areas for future improvement / collaboration
- Track broadband services offered at the census block level to compare markets and continue to refine underserved areas.
- Build a library of physical networks and employed spectrum (licensed / unlicensed) to assist in identifying best practices and potential unused resources.
- Iterate the census block mapping to get higher levels of accuracy

Georgia Goals:

- ID existing middle mile for future improvement / collaboration
- Map digital community centers and types for potential use census blocking broadband supply and demand issues revealed by the map
- Load Georgia maps on demographics, educational rates, school achievement, and economic development for testing of causal and correlation factors to broadband adoption
- Track facilities investments in the state and assist in their best utilization
- Load Georgia maps on community healthcare institutions for integration into the HITT program

GTA intends to collect the data necessary to meet the requirements above in part through work with a third party. GTA has conducted an extensive RFQC based on the State Broadband Data and Development Grant Program NOFA and has qualified four vendors for this work including Georgia's University System.

Contact:

Rich Calhoun

Georgia Technology Authority

Program Director – Broadband

4044635906

richard.calhoun@gta.ga.gov

www.georgiabroadband.net

Department of Commerce, NTIA

State of Georgia Broadband Data and Development Grant Program

August 14, 2009

Rich Calhoun
GTA Program Director
404-463-5906
richard.calhoun@gta.ga.gov

www.georgiabroadband.net

Georgia has long recognized the importance of broadband technology in promoting economic development, education, public safety, and access to government information and services. Our work in the Georgia Telecommunications Act of 1995 as well as on-going leadership of Governor Perdue's Office, Georgia Technology Authority, and One Georgia Authority, an agency focused on rural economic development, have been central to the progress made in the state. We believe the funding now available through ARRA for broadband, both infrastructure and non-infrastructure is critical to continuing this work.

In preparing for this application, we wish to present some context for Georgia:

- Georgia is the largest state east of the Mississippi River
- Georgia has 159 Counties. This number is only behind Texas.
- Georgia has the 6th largest number of high speed providers (89 providers) per the FCC broadband reports released July 2009.

Since 2006, the state of Georgia has provided $11 million of taxpayer money to promote the development of broadband services in urban and rural areas through the Wireless Communities Georgia Program and the BRIDGE Program. In addition, Georgia has closed the gap in E-911 public safety services through a concerted effort to work regionally rather than locally.

Our broadband programs focuses on partnerships between local governments and private-sector providers to establish sustainable and affordable broadband services for residents, schools, police, healthcare delivery organizations, and others.

In describing our plan for broadband mapping, we thought it made sense to first share our strategic priorities in this sector. Georgia's strategy for broadband encompasses four particular areas of needed investment by the public and private sectors:
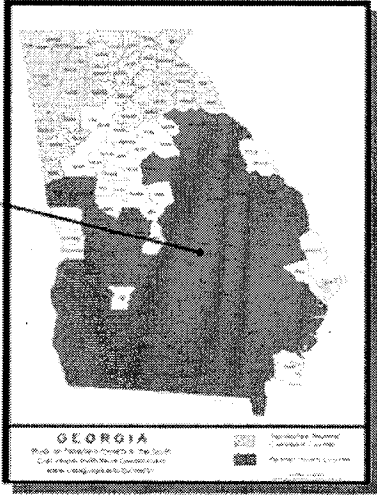
1. Backhaul infrastructure in our 91 counties of persistent poverty

Georgia's Carl Vinson Institute of Government has identified a wide-ranging persistent poverty region across multiple states in a 2003 report entitled *Dismantling Persistent Poverty in the Southeastern United States*. Georgia has more counties in this persistent poverty region than any other state.

We believe that broadband, and in particular the advanced educational capabilities that come with high-speed, high-capacity broadband, can fundamentally change this area of the state. It can be a source of long term, sustainable capacity building and economic development.

2. Access and backhaul infrastructure statewide in unserved and underserved areas

While the traditional FCC broadband availability charts designate Georgia as relatively well served in comparison with other states, we know that in the largest state east of the Mississippi and one with a significant rural population, this zip code-based data is highly misleading.

Many communities throughout Georgia make do with limited T-1 access to schools. Many counties live with much if not a majority of their population on dial up. These methods of access are not sufficient for the 21st century.

However, our focus goes beyond these most underserved and unserved areas. Our goal is to make Georgia not just nationally competitive but globally competitive. We are now competing with countries whose broadband offerings are substantially beyond what we have in the U. S. We applaud your agency for its work in the Round One NOFA, and we encourage you to aim for higher broadband speeds in future funding rounds and policy work.
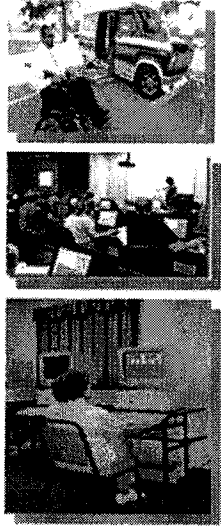
3. <u>Enable digital literacy, adoption, and utilization statewide</u>

State Priority #3 Literacy, Adoption & Utilization

- Public and private sector investment in broadband demand building, use, and support programs throughout the state such as:
  - Computer Training
  - Computer Purchase and Earnership
  - Knowledge based Capacity Building
- Targeting the:
  - Unemployed
  - Underemployed
  - Disabled
  - Aged

Page 6   August 12, 2009

Utilization of technology is more important than technology itself, and only education can facilitate this utilization. Georgia has made tremendous investments in education through the HOPE scholarship program that has provided over $4.6 billion in funds to more than 1.2 million students at Georgia's colleges, universities, and technical colleges since 1993. In addition, the OneGeorgia BRIDGE program offers technology awareness and strategy consulting to all of our rural counties. We are actively working with the public and private sectors in broadband demand building, use, and support across the state.

4. Telecommunications data collection, analysis, and mapping statewide

Good government operates on a data-driven basis. Georgia strives to make fact-based decisions at all times. We have created a middle mile fiber map of Georgia in 2000 that needs to be updated and is shown above. We have sought carrier and coverage data in the past and struggled to get the details we require for making investment decisions. For these reasons, we welcome NTIA's State Broadband Data and Development Grant that can help us build an on-going sustainable program for broadband mapping.

Georgia does not have a last mile broadband map of any significant resolution today. When ARRA funding was originally announced, we used our own internal data to assess broadband availability throughout the state in March 2009. The map below shows our interpretation based on reports from local government and residents and the projects that the State of Georgia has funded. It is organized by the Regional Commission structure in Georgia.

Regional Commissions
State of Georgia

Regional View of Unserved and Underserved

Unserved and Underserved Severity	Regions
Critical	2,7,8,9,11
Moderate	1,4,5,6,10,12
Low	3

Source

Base map DCA

Service Interpretation GTA

Page 11

Effective July 1, 2009
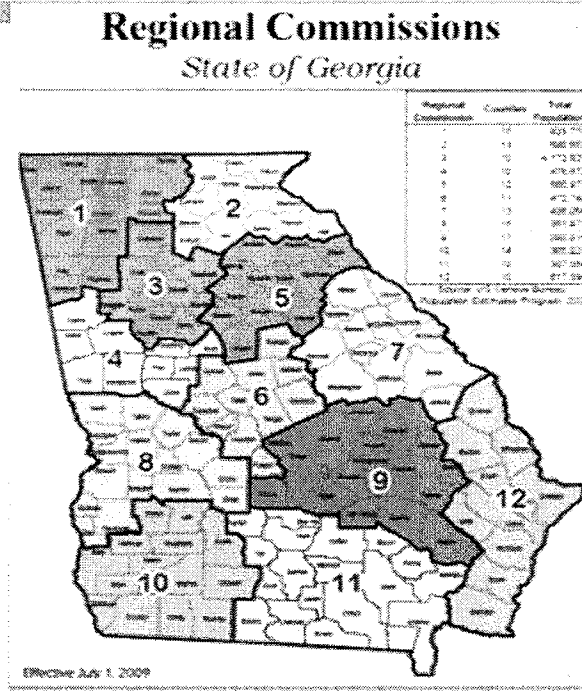
Following the approval of stimulus funding, we immediately began building upon our proactive strategy for bringing broadband services to Georgians. We launched the Georgia Stimulus Accountability For Broadband Web site (http://georgiabroadband.net) as our primary means of sharing information with local communities and service providers who are interested in receiving stimulus funding for broadband initiatives.

ge🔍rgia.gov™

Search

Friday, August 14, 2009

STATE OF GEORGIA
STIMULUS ACCOUNTABILITY
FOR BROADBAND

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» BROADBAND STIMULUS » GEORGIA PROJECTS

Bailey White · Logout

INSTRUCTIONS

This page allows you to submit and edit broadband stimulus projects. While the information about projects you enter will be visible to all registered users on the site, only you and the site administrator will be able to edit or delete your projects, or see project documents you upload.

Before submitting a project, please review the State's **Stimulus Guidelines** and review all current projects to make sure your project hasn't already been submitted by someone else.

To submit a new project, click on the 🔲 icon below. Once completed, click on the *Submit New Project* button.

To upload documentation for the project, use the *Upload Documents for My Projects* form below.

VIEW OR SUBMIT PROJECTS

Filter Project Type by <none> ▼
Filter App Type   by <none> ▼ < [Find it!]
Filter Org Type   by <none> ▼

Records 1-100 of 100

Project Name	Project Type	Project Description	App Type	Project Owner	Org Type
Chatham Parks	Unserved	Provide Public Wireless Broadband Access in Public Parks in Chatham County	NTIA Broadband TOPS General	Lewis Leonard	Public
Sustainable Smart Farm Comunity Solution	Economic Development	The proposed solution will provide innovative web-based "sustainable smart farming community solution" including broadband wireless Internet and farming applications for remote data monitoring, management, and control that help conserve water, energy, labor resources, increase crop yields, and improve efficiency and productivity for farmers in unserved and underserved communities of Georgia.	NTIA BTOP Sustainable Broadband Adoption	Paul Gupta	Private
		The proposed network will span 5300 square miles and will serve counties of over			

We also encouraged them to register their proposals on the Web site so Georgia would be ready to respond to the request for applications from the departments of Agriculture and Commerce in a coordinated manner. To date, over 100 proposals have been registered. A team of carefully selected state officials has evaluated each proposal to determine which ones are ready to proceed and are likely to provide a sustainable approach to service delivery.

Our successes thus far demonstrate that Georgia has the know-how, processes and people are already in place to use stimulus funding in a responsible and carefully planned way. We look forward to working with NTIA and other states as we all pursue globally competitive broadband services.

DATA:

<hr>

DATA GATHERING

Data is useful only if it is actionable. Therefore we have outlined the actions we anticipate needing to take based on this data.

Federal Minimums:

- ID unserved and unserved areas for future improvement / collaboration
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- Track facilities investments in the state and assist in their best utilization
- Load Georgia maps on community healthcare institutions for integration into the HITT program

GTA intends to collect the data necessary to meet the requirements above through a third party. GTA has conducted an extensive RFQC based on the State Broadband Data and Development Grant Program NOFA and has qualified four vendors for this work including Georgia's University System.

Georgia maintains a GIS Clearinghouse of statewide data ranging from basic boundaries to roads, hydrography, and wetlands. This data, FCC licensing data, other public facilities data, and additional mapping data will be used in formulating a base map and associated layers. In addition, we plan to make use of existing GIS maps of the University system's statewide fiber infrastructure.

The provider data collection process will gather the additional information required to complete the record formats outlined in the NOFA. The data collection process will involve the following steps:

1) Provider discussions and commitment: GTA has engaged in meetings over the last six months with service provider associations including the Cable Television Association of Georgia, Georgia Telephone Association, AT&T, Verizon Wireless, and other major and local companies and organizations that provide broadband service today. With the revisions to the NOFA published August 7, we anticipate being able to reach agreements to support the NOFA through continued discussions.

2) Provider data collection process: GTA will work on its own and with selected third parties to collect data for broadband mapping. We have worked already with small ILECs on regional projects in the past and have been fortunate to receive their plant data. While AT&T is the largest ILEC in Georgia, Georgia has 159 counties and many, many local ILECs in addition to small cable franchises and wireless providers.
In addition, we have found that providers have widely varying data formats available. Because of this, we anticipate this data collection will be involved and have a wide of variance. In the best cases, we may receive census block information directly compliant with the NOFA. In the worst case, we may receive hand drawn maps of service areas and facilities that must be transposed to GIS layers, or even receive no data at all.
In cases where we are not able to receive any data at all and depending on the frequency of this issue, we may conduct direct surveys to infer broadband service areas.

While we understand the need for NTIA to change the NOFA's data requirements, we are disappointed in the lack of detail present at the census block level. Where service providers cooperate, we will compile address level data.

ACCURACY AND VERIFICATION

GTA intends to apply multiple approaches to ensure accuracy of the data collected and verify the interpretations we have made. We recognize the inherent accuracy risks in sourcing and aggregating large amounts of information. We are currently contemplating the following processes. These processes are broken down into two categories – quality checks built-in to the upfront data collection process and processes to check quality after the initial data collection.

1) Data integrity – We intend to seek various data elements that must reconcile for the data to be accurate. For example, last mile interconnection points can be reconciled with stated service boundaries to some extent.
2) Provider verification – We intend to go back to providers and ask to confirm that the data we have received is correct and complete.
3) Statistical sampling – We will create and execute a statistical sampling control plan for a random selection of providers. Samples of the data received by each will be taken and verified through phone calls or other interview / research techniques. A p-chart process will be used to track provider accuracy and put additional emphasis towards providers whose data is more often inaccurate. We also plan to use a second statistical process to spot check all of the data gathered.
4) Verification against Broadband Stimulus Data – Where incumbents provide challenges to unserved / underserved designations in stimulus applications, we will use the resolution of these challenges to improve our state map.
5) Transparency – We will post for public inspection our findings and welcome corrections to maps.

ACCESSIBILITY

Georgia intends to make its mapping information public to the fullest extent of the law and confidentiality agreements. We will provide a web viewer for multi-layer analysis, published GIS shape files and meta data, and published pdf spatial files. We intend to provide updates at least twice per year.

SECURITY AND CONFIDENTIALITY

GTA expects confidentiality and security to be an important topic for the provider participants. GTA intends to house the collected data within a neutral third party rather than a public agency. Our framework for security and confidentiality includes the following:

Facet of Security and Confidentiality	Methods
Legal Protection	GTA and those operating in its behalf will work with providers under a Memorandum of Understanding outlining all parties' expectations and responsibilities in participating in the program.
Data Hosting Security	GTA and those operating in its behalf will be required to pass a security audit conducted by a neutral third party
Transmission Security	As part of the MOU described above, risks in data transmission will be described and acknowledged. GTA and its affiliates will provide secure data transmission capabilities for providers but cannot take any responsibility for the proper use of these capabilities by entities beyond GTA's span of control.
Operational Security	Operational procedures for maintaining security are as important if not more important than technical matters. GTA currently has extensive experience in operational security due to its work managing the state's confidential data. GTA will apply appropriate operational procedures to this program.

PROJECT FEASIBILITY

APPLICANT CAPABILITIES

In preparing our budget, GTA conducted an RFQC for outside assistance. Our RFQC received twelve responses, and the RFQC evaluation committee qualified four responses listed in no particular order: OneEconomy, Connected Nation, Georgia Tech, and Sanford.

Our intention is to now issue Statements of Need to these qualified vendors for particular tasks and portions of tasks below and to determine the final make up of contractor versus personnel at the end of this process.

GTA has prepared the following budget for the mapping program. We have created this budget based on discussions internally as well as the information gathered in our RFQC.

Program Budget	%	Amount
Map planning and process creation	4%	$ 195,200
Data Collection (10 Datasets)	20%	$ 976,000
Data Preparation	15%	$ 732,000
Data Collection Updates	5%	$ 244,000
Data Preparation Updates	5%	$ 244,000
GIS Mapping Dataset (10)	10%	$ 488,000
Map Analysis	7%	$ 341,600
Map / Layer Display	10%	$ 488,000
Verification	10%	$ 488,000
Sustainability Development	10%	$ 488,000
Reserve	4%	$ 195,200
Total	100%	$ 4,880,000

This program will be funded by three sources if approved by NTIA:

Source of Funds	5 Year Commitment
NTIA 5 year funding	$ 3,900,000
State of Georgia 5 year match	$ 780,000
Program Income	$ 200,000
Total	$4,880,000

While we are not certain how the program will provide for the income above, we believe it is important for a program as significant as this one to find early ways to sustain itself. To this end, we have targeted for the program to deliver at least $200,000 in income over its five year operational period.

In addition, we are seeking planning funds. Please see the budgetary breakout for these funds below.

Planning Budget	Amount
GTA data Validation Process	$ 80,000
Broadband Office Startup	$ 160,000
Graduate Student Case Studies	$ 40,000
Broadband Dashboard Concept	$ 120,000
Affordability Analysis	$ 100,000
Sustainability Development	$ 100,000
Total	$ 600,000

Planning Budget Source of Funds	5 Year Commitment
NTIA 5 year commitment	$ 500,000
State of Georgia 5 year match	$ 100,000
Total	$ 600,000

Our intention is to fund this program through two sources of funds above.

APPLICANT CAPACITY, KNOWLEDGE, AND EXPERIENCE

GTA has extensive experience in managing telecommunications projects. Georgia Technology Authority has responsibility for the state's telecommunications infrastructure and services and manages data servers for all of the state's agencies. The program director for this project, Rich Calhoun, has worked in the telecommunications industry for almost 20 years. His is listed at the bottom of this section.

While certain individuals at GTA have Ph D's in GIS, the organization as a whole does not have a core GIS capability. GTA has worked with other agencies and local government entities that are recognized experts in GIS in planning this project. These entities include:

- Department of Community Affairs
- Dekalb County
- Gwinnett County
- Department of Homeland Security
- Georgia Tech

In addition, GTA has worked with Civitium, a consulting company focused specifically on broadband, for the last 3 years on matters from municipal wireless, to rural last mile broadband, to fiber backbones. GTA will continue to rely on Civitium's expertise in this program.

In preparing for broadband stimulus as a whole, GTA has worked with a wide variety of entities and is fully capable of managing this mapping program. State and local entities include:

- Municipal Leadership (Mayors, City Manager, IT Directors)
- Public Service Commission
- Department of Education
- Department of Community Affairs
- Georgia Emergency Management Agency
- OneGeorgia Authority for rural economic development
- Board of Regents
- Department of Community Health
- Office of Student Achievement
- Georgia Municipal Association
- Cable Television Association of Georgia
- Georgia Telephone Association
- AT&T
- Verizon
- Windstream

- Association of County Commissioners of Georgia
- Governor's Perdue Policy Advisors
- Governor of the State of Georgia

Finally, GTA has identified four vendors through its RFQC process to assist in particular portions of the mapping program. We are now able to issue specific statements of need, make selections, and start work immediately. These vendors have indicated a September 1 start date is acceptable.

Rich's resume is listed below:

Richard Calhoun

Professional Experience

GEORGIA TECHNOLOGY AUTHORITY - 47 Trinity Ave, Atlanta, GA 30334   2006 to Present

Program Director - Broadband   Contact: (404)-463-2300 www.gta.ga.gov

I provide technology consulting services to state and municipal governmental leadership in the areas of wireless and broadband infrastructure design, problem resolution, grants management, program management oversight, vendor negotiations, and make versus buy decisions.

- Manage $5M grant budget for buildout of municipal (8) Wi-Fi (802.11) & WI-Max (802.16) networks and raised $12 Million in public and private capital contributions for the program.

- Stimulated over $10M in economic development through equity partnerships arrangements

- Administered local government training with over 50 communities holding informational workshops, industry presentations and writing the application guidance rules and ensuring the execution of memorandum of understanding provisions at 100% compliance.

- Network project plan completions are 90% for six Georgia communities under my leadership:

Georgia Emergency Management (GEMA) - 935 E. Confederate Ave, ATL. GA 30316 - 2005 to 2006

Senior Grants Manager   Contact: (404) 635-7000 www.gema.state.ga.us

I managed five managers to performing grants management, and contractual duties. Communities applied for federal hazard mitigation grants funding for home repairs and buyouts due to flooding and natural disasters. Interacted with municipal leaders and water and flood managers in over 100 communities in the state of Georgia

- Expert in the evaluation and interpretation code of federal regulation (44 CFR) for federal hazard mitigation grants. Competence led to 10% fewer mistakes in applications to the federal government on behalf of the Sate of Georgia.

- Trained staff to meet and exceed the stringent state contracting rules for tracking, monitoring and

securing funds. Established auditing process to catch 5% more errors on contacts and financials

- Secured over $10M in hazard mitigation grants for flooding victims to provide assistance for home elevations, replacements, and expanding green space.

- Provided oversight of over 15 ongoing grant contracts with over 25 communities. Managed financial reimbursements for municipalities

Federal Emergency Mgmt Agency - 3003 Chamblee Tucker Rd – Atl. GA 30341 -2004 to 2005

Federal Grants Manager   Contact: (770) 220-5200   http://www.fema.gov/

Recruited by the Senior Grants Specialist to advise and assist State Hazard Mitigation Officers and staff to process multi-million dollar hazard mitigation federal grant applications. Assigned to lead grant activities for the states of Mississippi, and Georgia.

- Approved over $20M in grants for state of Georgia and Mississippi

- Reduced application cycle from receipt to approval by 6 weeks

- Lead agency with best practices for customer relationship management scores

C.P Global Marketing, Inc. - Atlanta, GA 3396 Kiveton, Ct - Norcross, GA 30092 - 2002 to 2004

Business Owner   Contact: (678) 570-3204

Created upstart technology consulting firm with colleagues from AT&T Bell Laboratories to provide software development services to enterprise clients. As president of the company I ran day-to-day operations as well as initiated sales leads for the company. The company sought outsource contracts in project management services for RF Engineering and systems deployment.

- Trained contract staff in management of high tech project and program

- Sought contractor expertise inside and outside of the United States

- Prepared presentation materials to help client solve systemic telecommunications problems

Alcatel-Lucent - 600 Mountain Avenue Murray Hill, NJ 07974   1996 - 2002

Director Technology   Contact: (908) 508-8080

(Wireless, CDMA, TDMA, GSM, Switching)

Alcatel-Lucent is the first truly global communications solutions provider, with the most complete end-to-end portfolio of solutions and services in the industry. http://www.alcatel-lucent.com/wps/portal

Managed a team of 15 high technology managers in the strategic planning, standards creation and policies for deployment and operating complex wireless network architectures. Initial goal for Cingular was to redeploy over 50 cell sites in Georgia along the interstate I75N, I85N, and GA400N corridors to improve RF coverage, reduce dropped calls and increase customer revenues and profitability.

- Assisted enterprise customers in establishing standards and policies for deployment of wireless TDMA enterprise network architecture for Cingular. This complex architecture consisted of over 10 telecommunications switches, several hundred applications, and over three cell site towers.

- Oversaw company's technology planning, security, sales contract management and program management operation to ensure adherence to corporate goals and objectives and provisions.

- Set up best practices in the analysis and research of radio frequency, software and applications to ensure and promote learning environment with engineers and operational manager

AT&T Network Systems - 600 Mountain Avenue Murray Hill, NJ 07974 -1990 – 1996

Program Director   Contact: (908) 508-8080

AT&T Network Systems A provider of end-to-end telecommunications systems for large enterprise customers. http://www.alcatel-lucent.com/wps/portal

I led a team of 50 engineers which included RF Engineers, Project Managers, Customer Stakeholders, Program Managers, Systems Engineers, Equipment Installers, administrators, temporary personnel, and software engineers to deploy cell site deployment in Seattle, Spokane, San Francisco, Traverse City Michigan, and Atlanta, GA.

- Created technology plans to install cell towers, test switching equipment and software, and drive test team efforts to complete the project two months ahead of schedule saving $2M millions in recovering deployed assets.

- Managed SprintPCS contract and was central point of contact for technical operation and customer satisfaction of $15M for gate approval. Received outstanding Director Award for completing project under cost.

- Managed union team members to build out cell site installations and perform quality check on hardware units

- Managed day-to-day operations interfacing with key executives for status and problem resolution reporting.

EDUCATION

- ♦ M.B.A. – KELLOGG SCHOOL OF MANAGEMENT AT NORTHWESTERN UNIVERSITY-EVANSTON, IL, - MARKETING AND FINANCE

- ♦ M.S. – CLARK ATLANTA UNIVERSITY, ATLANTA, GA - COMPUTER SCIENCE

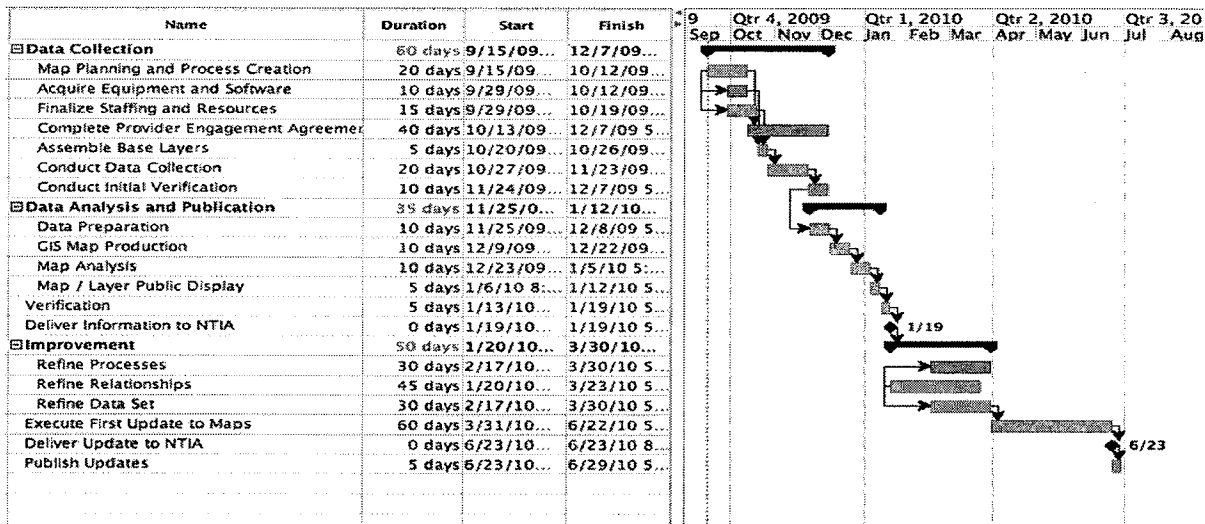◆ B.S. – BENEDICT COLLEGE, SC – APPLIED MATHEMATICS

EXPEDIENT DATA DELIVERY

GTA respects the urgency of this program. We have confirmed internally as well with multiple vendors through our RFQC that the timeline requested by NTIA is feasible if we receive approval from NTIA to commence operations by September 15, 2009.

Specifically, we envision the following schedule:

Georgia Project Mapping Schedule
August 14, 2009

Name	Duration	Start	Finish
⊟ Data Collection	60 days	9/15/09...	12/7/09...
Map Planning and Process Creation	20 days	9/15/09...	10/12/09...
Acquire Equipment and Software	10 days	9/29/09...	10/12/09...
Finalize Staffing and Resources	15 days	9/29/09...	10/19/09...
Complete Provider Engagement Agreemer	40 days	10/13/09	12/7/09 5...
Assemble Base Layers	5 days	10/20/09...	10/26/09...
Conduct Data Collection	20 days	10/27/09...	11/23/09...
Conduct Initial Verification	10 days	11/24/09...	12/7/09 5...
⊟ Data Analysis and Publication	35 days	11/25/0...	1/12/10...
Data Preparation	10 days	11/25/09...	12/8/09 5...
GIS Map Production	10 days	12/9/09...	12/22/09...
Map Analysis	10 days	12/23/09...	1/5/10 5:...
Map / Layer Public Display	5 days	1/6/10 8:...	1/12/10 5...
Verification	5 days	1/13/10...	1/19/10 5...
Deliver Information to NTIA	0 days	1/19/10...	1/19/10 5...
⊟ Improvement	50 days	1/20/10...	3/30/10...
Refine Processes	30 days	2/17/10...	3/30/10 5...
Refine Relationships	45 days	1/20/10...	3/23/10 5...
Refine Data Set	30 days	2/17/10...	3/30/10 5...
Execute First Update to Maps	60 days	3/31/10...	6/22/10 5...
Deliver Update to NTIA	0 days	6/23/10...	6/23/10 8...
Publish Updates	5 days	6/23/10...	6/29/10 5...

PROCESS FOR REPEATED DATA UPDATING

GTA stresses long term sustainability planning in its actions as whole. We will comply with NTIA's request for semi-annual updating of the maps, but at this point cannot describe the specific we will use for doing such.

In our budgetary process, we have provided funds for map updating each year and, more importantly, for planning a sustainability process for map updating on-going beyond the period of performance.

In our RFQC we solicited opinions from twelve vendors on sustainability and received several responses we had not previously considered. We look forward to working with NTIA and other states in developing a long term sustainability plan.

PLANNING AND COLLABORATION

Planning and collaboration are fundamental to improving our state's broadband services. We have emphasized collaboration to our constituents as the single most important, and most challenging, ingredient in improving broadband services at the local and state levels.

Georgia has targeted several activities which we wish to pursue with the additional planning funds available. These activities are:

- Broadband Office startup to formalize the momentum and initiative that Georgia has created.
- Case studies of effective and ineffective broadband infrastructure, non-infrastructure, and mapping projects.
- A "broadband dashboard" concept to let legislators, governmental leaders, and other key stakeholders track Georgia's broadband progress
- A framework and analysis to determine the affordability of broadband services. The issue of understanding affordability has surfaced among many of our applicants for Round 1.
- Broadband Office sustainability planning
- GTA validation processes

Unlike the other portions of our budget that emphasize rapid spending and results, this small portion of the budget is focused in the latter years of the period of performance because of the importance of sustainability.

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. Planning Grant for State Governance and Broadband Office		$	$	$ 500,000.00	$ 100,000.00	$ 600,000.00
2. Data Collection				2,232,667.00	446,533.00	2,679,200.00
3. Data Analysis and Publication				1,098,000.00	219,600.00	1,317,600.00
4. Closeout and Sustainability				569,333.00	113,867.00	683,200.00
5. Totals		$	$	$ 4,400,000.00	$ 880,000.00	$ 5,280,000.00

Tracking Number:GRANT10400232

Funding Opportunity Number:0660-ZA29 Received Date:2009-08-18T15:25:54-04:00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) Planning Grant for State Governance and Broadband Office	(2) Data Collection	(3) Data Analysis and Publication	(4) Closeout and Sustainability	
a. Personnel	$ 420,000.00	$ 817,200.00	$ 900,000.00	$ 400,000.00	$ 2,537,200.00
b. Fringe Benefits	0.00	0.00	0.00	0.00	
c. Travel	30,000.00	100,000.00	10,000.00	5,000.00	145,000.00
d. Equipment	10,000.00	50,000.00	100,000.00	5,000.00	165,000.00
e. Supplies	5,000.00	30,000.00	30,000.00	1,000.00	66,000.00
f. Contractual	135,000.00	1,150,000.00	809,600.00	262,200.00	2,356,800.00
g. Construction	0.00	0.00	0.00	0.00	
h. Other	0.00	0.00	0.00	10,000.00	10,000.00
i. Total Direct Charges (sum of 6a-6h)	600,000.00	2,147,200.00	1,849,600.00	683,200.00	$ 5,280,000.00
j. Indirect Charges	0.00	0.00	0.00	0.00	$
k. TOTALS (sum of 6i and 6j)	$ 600,000.00	$ 2,147,200.00	$ 1,849,600.00	$ 683,200.00	$ 5,280,000.00
7. Program Income	$ 0.00	$ 0.00	$ 200,000.00	$ 0.00	$ 200,000.00

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SECTION C - NON-FEDERAL RESOURCES

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e)TOTALS
8. Planning Grant for State Governance and Broadband Office	$	$ 100,000.00	$ 0.00	$ 100,000.00
9. Data Collection		357,867.00	0.00	357,867.00
10. Data Analysis and Publication		308,267.00		308,267.00
11. Closeout and Sustainability		113,866.00		113,866.00
12. TOTAL (sum of lines 8-11)	$	$ 880,000.00	$	$ 880,000.00

SECTION D - FORECASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	$ 1,340,734.00	$ 670,367.00	$ 268,147.00	$ 268,147.00	$ 134,073.00
14. Non-Federal	$ 268,146.00	134,073.00	53,629.00	53,629.00	26,815.00
15. TOTAL (sum of lines 13 and 14)	$ 1,608,880.00	$ 804,440.00	$ 321,776.00	$ 321,776.00	$ 160,888.00

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. Planning Grant for State Governance and Broadband Office	$ 135,000.00	$ 115,000.00	$ 50,000.00	$ 25,000.00
17. Data Collection	483,120.00	411,547.00	178,933.00	89,467.00
18. Data Analysis and Publication	416,160.00	354,507.00	154,133.00	77,067.00
19. Closeout and Sustainability	56,933.00	56,933.00	227,733.00	227,733.00
20. TOTAL (sum of lines 16 - 19)	$ 1,091,213.00	$ 937,987.00	$ 610,799.00	$ 419,267.00

SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges:	22. Indirect Charges:

23. Remarks:

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