

Application for Federal Assistance SF-424

Version 02

*1. Type of Submission		*2. Type of Application	*If Revision, select appropriate letter(s):
<input type="checkbox"/> Preapplication	<input type="checkbox"/> New	<input type="checkbox"/> Continuation	* Other (Specify)
<input checked="" type="checkbox"/> Application	<input checked="" type="checkbox"/> Revision		
<input type="checkbox"/> Changed/Corrected Application			

*3. Date Received:	4. Application Identifier: ARRA - SBDD Georgia Technology Authority - Addendum
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5a. Federal Entity Identifier:	*5b. Federal Award Identifier: 13-50-M09046
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State Use Only:

6. Date Received by State: July 1, 2010	7. State Application Identifier: State of GA Mapping Addendum
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8. APPLICANT INFORMATION:

* a. Legal Name: Georgia Technology Authority

* b. Employer/Taxpayer Identification Number (EIN/TIN): 58-2569476	*c. Organizational DUNS: 037190902
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d. Address:

*Street1: 47 Trinity Avenue
Street 2:
*City: Atlanta
County: Fulton
*State: Georgia
Province:
Country: US *Zip/ Postal Code: 30334

e. Organizational Unit:

Department Name: Enterprise Governance and Planning	Division Name: Broadband
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f. Name and contact information of person to be contacted on matters involving this application:

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

Title: Program Director - State of Georgia Broadband

Organizational Affiliation:
State Agency
richard.calhoun@gta.ga.gov

*Telephone Number: 4044635906 Fax Number: 770.357.4255

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

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9. Type of Applicant 1: Select Applicant Type: **A. State Government**

Type of Applicant 2: Select Applicant Type:

- Select One -

Type of Applicant 3: Select Applicant Type:

- Select One -

*Other (specify):

*10. Name of Federal Agency:
US Department of Commerce

11. Catalog of Federal Domestic Assistance Number:

CFDA Title:

*12. Funding Opportunity Number:

*Title: **State Broadband Data and Development Program**

13. Competition Identification Number:

Title:

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

The Entire State of Georgia

*15. Descriptive Title of Applicant's Project:

State of Georgia Broadband Mapping Addendum

Attach supporting documents as specified in agency instructions.

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16. Congressional Districts Of: All

*a. Applicant 05

*b. Program/Project: All

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

17. Proposed Project: State of GA Mapping Addendum

*a. Start Date: 12/20/2012

*b. End Date: 12/20/2014

18. Estimated Funding (\$):

*a. Federal	\$3,036,240.00
*b. Applicant	\$849,720.00
*c. State	
*d. Local	
*e. Other	
*f. Program Income	
*g. TOTAL	\$3,885,960.00

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

- a. This application was made available to the State under the Executive Order 12372 Process for review on
- b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- c. Program is not covered by E.O. 12372

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

- Yes
- No

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

**I AGREE

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

Authorized Representative:

Prefix: Mr. *First Name: Richard

Middle Name: Glen

*Last Name: Calhoun

Suffix: Jr

*Title: Program Director State of Georgia Broadband

*Telephone Number: 4044635906

Fax Number: 7703574255

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

*Signature of Authorized Representative:  Date Signed: July 1, 2010

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***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.

BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 0348-0044

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. Mapping		\$	\$	\$ 1,646,000.00	\$ 339,240.00	\$ 1,985,240.00
2. Capacity Building				582,440.00	396,240.00	978,680.00
3. Local Planning				114,240.00	807,800.00	922,040.00
4.						0.00
5. Totals		\$ 0.00	\$ 0.00	\$ 2,342,680.00	\$ 1,543,280.00	\$ 3,885,960.00
SECTION B: BUDGET CATEGORIES						
6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY					Total (5)
	(1) Mapping	(2) Capacity Building	(3) Local Planning	Local Planning		
a. Personnel	\$ 84,000.00	\$ 408,000.00	\$ 84,000.00	\$	\$ 576,000.00	
b. Fringe Benefits	30,240.00	146,880.00	30,240.00		207,360.00	
c. Travel	21,000.00	52,800.00	52,800.00		126,600.00	
d. Equipment	60,000.00	40,000.00	15,000.00		115,000.00	
e. Supplies	15,000.00	15,000.00			30,000.00	
f. Contractual	1,775,000.00	281,000.00	740,000.00		2,796,000.00	
g. Construction					0.00	
h. Other		35,000.00			35,000.00	
i. Total Direct Charges (sum of 6a-6h)	1,985,240.00	978,680.00	922,040.00	0.00	3,885,960.00	
j. Indirect Charges					0.00	
k. TOTALS (sum of 6i and 6j)	\$ 1,985,240.00	\$ 978,680.00	\$ 922,040.00	\$ 0.00	\$ 3,885,960.00	
7. Program Income	\$	\$	\$	\$	\$ 0.00	

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Standard Form 424A (Rev. 7-97)
Prescribed by OMB Circular A-102

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. Mapping	\$	\$ 339,240.00	\$	\$ 339,240.00	
9. Capacity Building		396,240.00		396,240.00	
10. Local Planning		114,240.00		114,240.00	
11.				0.00	
12. TOTAL (sum of lines 8-11)	\$ 0.00	\$ 849,720.00	\$ 0.00	\$ 849,720.00	
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 700,000.00	\$ 175,000.00	\$ 175,000.00	\$ 175,000.00	\$ 175,000.00
14. Non-Federal	120,000.00	30,000.00	30,000.00	30,000.00	30,000.00
15. TOTAL (sum of lines 13 and 14)	\$ 820,000.00	\$ 205,000.00	\$ 205,000.00	\$ 205,000.00	\$ 205,000.00
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. Mapping	\$ 600,000.00	\$ 500,000.00	\$ 550,000.00	\$ 0.00	
17. Capacity Building	290,000.00	176,000.00	125,000.00	0.00	
18. Local Planning	352,500.00	290,000.00	120,000.00	0.00	
19.					
20. TOTAL (sum of lines 16-19)	\$ 1,242,500.00	\$ 966,000.00	\$ 795,000.00	\$ 0.00	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:		22. Indirect Charges:			
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 Column (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).

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 headings (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.

Line 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, Show under the program

INSTRUCTIONS FOR THE SF-424A (continued)

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.

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 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 (0348-0040), Washington, DC 20503.

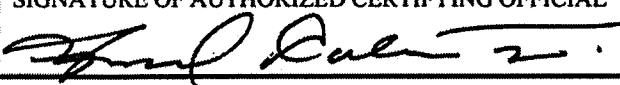
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

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

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

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application. 2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives. 3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain. 4. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain. 5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F). 6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), which prohibits discrimination on the | <ol style="list-style-type: none"> basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VII of the Civil Rights Act of 1968 (42 U.S.C. 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application. 7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases. 8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds. |
|--|---|

<p>9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. 276a to 276a-7), the Copeland Act (40 U.S.C. 276c and 18 U.S.C. 874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333), regarding labor standards for federally-assisted construction subagreement.</p> <p>10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.</p> <p>11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in flood plains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. 1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. 7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).</p>	<p>12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. 1271 et seq.) Related to protecting components or potential components of the national wild and scenic rivers system.</p> <p>13. Will assist the awarding agency in assuring compliance will Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. 469a-1 et seq.).</p> <p>14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.</p> <p>15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. 2131 et seq.) Pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.</p> <p>16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. 4801 et seq.) Which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.</p> <p>17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."</p> <p>18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.</p>
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SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 	TITLE Program Director
APPLICANT ORGANIZATION Georgia Technology Authority	DATE SUBMITTED July 1, 2010



STATE OF GEORGIA
STIMULUS ACCOUNTABILITY
FOR BROADBAND



SBDD State of Georgia Mapping Application Addendum
Submittal

U.S. Department of Commerce – NTIA

Contact:

Rich Calhoun

State of Georgia

Director, Broadband Stimulus Office

404-463-5906

richard.calhoun@ga.ga.gov

July 1, 2010

Project Abstract:

Enclosed is the State of Georgia's response to the recently issued SDBB Addendum request by NTIA.

Georgia looks forward to partnering with NTIA to produce high quality mapping that will assist in making good fact based decisions for telecommunications investment in Georgia. For ease of planning purposes, all of Georgia's grant addendum starts at Year 3 and completes at Year 5.

In the response below, NTIA will also see that Georgia is committed to developing a Georgia Broadband Center of Excellence (GBCOE) that will drive sustainable adoption, collaboration, and high impact utilization across education, telemedicine, public safety, and vulnerable populations. The end result will be to improve our future economic development through enhanced broadband deployment and utilization programs.

The State of Georgia, through its designated entity of Georgia Technology Authority for broadband infrastructure mapping, has developed an extensive plan to further its mapping systems and processes, data output, and analytical tools in years three through five and substantially rollout new programs to facilitate the enhanced deployment, and utilization of broadband through the state. In summary, these activities are:

- (i) Capacity Building: \$978,680
- (ii) Mapping: \$1,985,240
- (iii) Local Regional Planning: \$922,040

The total request is \$3,885,960.

State of Georgia Capacity Building (4 pages)

NAME: State of Georgia Broadband Center of Excellence (GBCOE)

FUNDS AWARDED: NTIA has allotted \$500,000 for a sustainable adoption program for programs in our 91 counties of persistent poverty rural areas. This program will take a state-wide look at the broadband needs of the state and identify resources, set goals and promote follow-through and execution to make Georgia the best in class internationally.

FUNDS REQUESTED: \$978,680

PROBLEM: The Georgia Technology Authority seeks to ensure that the state's IT infrastructure is stable, secure and well-governed, and provides Georgians with the services they need and expect. More specifically, GTA: Manages the state's IT infrastructure — data center, network and telecommunications services and security; Establishes policies, standards and guidelines for state IT and Promotes an enterprise approach to state IT.

The Georgia broadband ecosystem also includes a dynamic public and private sector stakeholders outside the state system that need direction and state involvement to leverage resources and set objectives and goals, leverage best practices and promote collaboration outside the state system.

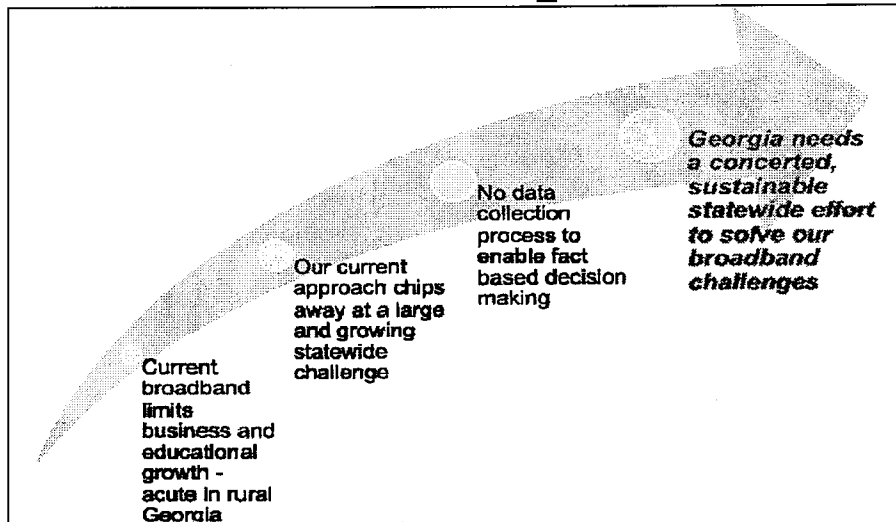
GTA's statutory responsibilities encompasses Technology enterprise management — methods for managing technology resources for state agencies; resources include data centers, servers, mainframes, PCs and laptops, wide and local area networks, telecommunications and technology personnel and Technology portfolio management — approaches for analyzing and ranking the state's technology investments.

Although GTA was charged by the Governor to manage the ARRA broadband portion of the stimulus, management considered these activities as temporary. The Governor's wireless communities Georgia program which provided oversight and grant funds have produced 6 networks using 802.11 and 802.16 wireless standards is also sun setting in October 2010.

In addition to the \$58M that the state has received in from NTIA, and an additional \$87M in round two project recommendations there is no state organization that provides leadership on broadband in a consistent and sustainable way.

The problem set includes not having a central broadband authority and no consolidation of state leadership around common goals. Enclosed is a chart that outlines results of a lesson learned study performed by the Georgia Technology Authority in early 2008 that outlines state broadband needs:

Wireless Communities Georgia Lessons Learned



Through the NTIA ARRA broadband grant funding program we have been able to begin to address Georgia's broadband needs and get better mapping and data collection to enable fact based decision making.

SOLUTION: The state of Georgia government needs to expand its thought leadership in broadband by creating a broadband organization to develop strategies, goals, best practices with a focus on providing affordable broadband for Georgians to help ensure our economic development future.

Georgia Broadband Center of Excellence (GBCOE) initial activities:

1. Meeting with state's public policy makers to educate, enlist support, and create a mutually agreed upon framework for the GBCOE - Completed by: February, 2012
2. Develop public-private sector advisory team to outline organization goals, objectives, and measures – March, 2012
3. Further define broadband goals and objectives for the State - April, 2012:
 - i. Public safety
 - ii. Education
 - iii. Adoption and training (Vulnerable Populations)
 - iv. Community Anchor Institution Technology Planning
 - v. Telehealth Infrastructure
 - vi. Access (Unserved and Underserved)
 - vii. Spectrum Management
 - viii. Mapping and Data Collection
 - ix. Smart Grid/Energy Management
 - x. Grants Management
4. Meeting with subject matter experts at local, state, federal and international level to ensure use of best practices – April, 2012
5. State broadband summit to gather input for Georgia Broadband Plan and measurable objectives – June 2012
6. Create State Broadband Plan with issuance by September 2012

7. Release broadband information and application sharing repository to share mapping, analysis, and new applications created and purchased for education, citizen broadband training, telehealth, and public safety. Data will need stored and accessible throughout the state and operational by September 2013.
8. State broadband plan collaboration and partnerships: Bring key stakeholders together to leverage existing stove pipe organizations and institutions (service providers, Public Safety, Telehealth, vulnerable populations, Smart Technologies, and Community Anchor Institutions) to identify win-win business opportunities, use of shared resources, common goals, and economic development opportunities. Begins September 2012 and operates on-going throughout period of performance.

OUTCOMES AND BENEFITS:

The GBCOE anticipated outcomes are the keys to showing value to public-private sector that will help convey its value in the Georgia broadband ecosystem. Below is our first pass at outcomes that we expect to start seeing benefits from as early as July 1, 2012. There will be many activities being executed along the way with most activities having a migration plan with further measurable objectives and a dashboard to show progress in a transparent way.

These outcomes and benefits are in addition to those expected for the Planning Grant Georgia received in 2009. The activities for those funds remain the same, with a focus on educational adoption

Type	Metric	Impact/Value
1. Grants Availability	List of federal and state grants for broadband expansion	Will allow Georgia to compete favorable for its fair share of grants. But will allow for businesses to understand the full compliment of grants that are available and when. This could lead to technical assistance workshops to help Georgia business compete more favorably for these financial resources.
2. Telehealth Adoption Rate	Determine what the telehealth adoption rate by county is for Georgia. What applications are being used and the data rates needed for certain applications. Number of Physicians and locations with and without telemedicine.	This information will allow for Georgia to identify the barrier to entry for use of electronic health records and other telehealth applications.
3. Education – Distance Learning	Number of Georgia’s using distance learning in public school, technical colleges and universities	Correlation between improvement in state educational standards and how these institutions are managing growth in these areas.
4. Smart Grid	Identify companies that are making investment in broadband for smart grid.	Identify the applications and technology appliances needed for energy management.
5. Municipal Broadband	List of Municipalities that are involved in provider broadband services	Determine the Municipal networks and how they are faring on speed, reach, ROI or cost of ownership.

6. State Broadband Plan	Plan will outline state objectives, goals, best practices in a written transparent format Updated twice a year. Create newsletters for citizens' and policy makers quarterly.	Mechanism for collaborative partnerships toward common goals across key broadband functional areas
7. Hold broadband summit with local, state, federal and international leadership	Forum for stakeholders to give input on objectives and best practices.	Viral collaborative state that results in more broadband economic development investment in Georgia
8. Create state-wide repository of broadband information accessible by website and other method	Promote side to get no less than 500,000 businesses and citizens registered on site.	Citizens updated on training, deployments, grants, and uses of broadband

COST: NTIA has been an advocated for Georgia expansion if broadband through the ARRA broadband funding. The new focus on capacity building is welcomed. The additional \$893,680 investment is reasonable given the startup costs of jump starting a new broadband organization.

The high-level summary costs will include the following cost items over a three year period:

- **GBCOE Staff Resources \$ \$710,880**
 - State Leadership (Program Director and Consulting) are needed to maintain and increase thought leadership
- **State Broadband Summit: \$80,000**
 - Bringing together key broadband stakeholder to participate and exchange ideas will single change in the state
- **Broadband information and application sharing repository: \$40,000**
 - Mapping, analysis and new application created and purchased for education, citizen broadband training, telehealth, and public safety will need stored and access throughout the state
- **State Broadband Plan: \$ 30,000**
 - A written plan that is accessible online will need resources to pull information together information for a best in class plan that can be reference and is useable

These and other miscellaneous costs including travel make up the total budget.

Total \$978,680

SBDD PURPOSE: The mapping program is the foundation of gathering facts through identifying unserved and underserved to the best levels formulates our state's challenges as accurately as possible. This core foundation directly correlates to how we formulate first a sound broadband structure through the establishment of GBCOE and to gain the support of public and private sector stakeholders for meaningful change in our state.

State of Georgia Broadband Mapping (3 pages)

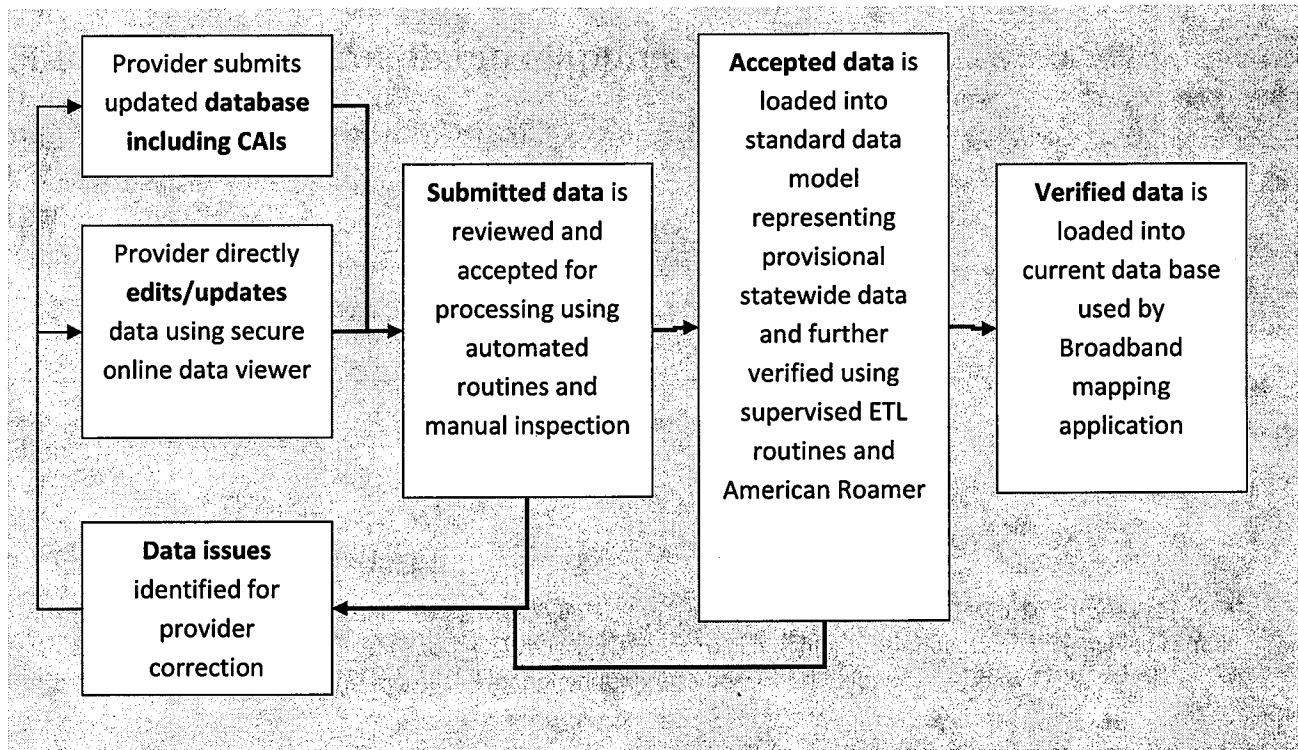
DATA COLLECTION, INTEGRATION, AND DISPLAY

Funding Summary:

Current amount that has been awarded for this activity	\$ 1,693,700
New funding request contained in the proposal	\$1,985,240
Total for Mapping	\$3,678,940

PROCESS FOR REPEATED UPDATING

With this proposal, Georgia intends to deliver 3 years of mapping datasets, delivered two times per year, to NTIA at a reduced cost compared to today. While we expect to achieve operational efficiencies which reduce our cost, we also plan to deliver increased mapping quality as described below.



DATA GATHERING METHODOLOGY

Georgia currently receives data from the service providers participating in the program and overlays this data on top of base maps from various public sources. Georgia expects to continue to operate and improve this process with additional data. Through additional funding, Georgia plans to add the following:

- Directly collect Community Anchor Institutions subscription speeds and committed capacity (for specifically K-12 schools, public safety, community colleges, and telemedicine entities)
- Purchase American Roamer wireless data services and spectrum usage
- Increase service provider participation in data collection from 67% to 90% of all service providers.
- Request speed data from providers by the same feature type as the rest of the data (census block & address).
- Include pure resellers which will require new contacts to be made and logged, new NDAs to be put in place, changes to the data models and processing scripts, additional verification and changes to the web applications built for the project.

PROCESSES FOR DATA INTEGRATION

Georgia has developed Extract, Transform and Load (ETL) routines to integrate the data into a production data model, and resolve the data provided to a spatial feature such as a census block or street segment. We expect to set up ETL processes for all providers to achieve efficiencies in the long run.

- Integration of data for Years 3 to 5 will also include transformation of data from the Census 2009 geography to Census 2010 geography including the processing of ancillary data related to Census 2010.
- Create a format for delivery of non-confidential data.
- Integration of FCC speed test data and American Roamer data into data repository.

VERIFICATION METHODOLOGY

Verification is a critical part of the mapping process. Georgia plans to increase our comparisons of the provider data to commercially available data sources, publicly available datasets, and performing other spatial analysis on the data to look for spatial outliers or discrepancies. In addition, we propose to implement the following:

- Create a data confidence scale for all data collected as part of our data verification/validation methodology.



- Provide/public feedback loops whereby the public can provide feedback to the provider in the information portal and interactive mapping application. In addition, the provider will be able to track and correspond with the public through the use of the provider portal and social networking technologies.

DISPLAY

Georgia expects to enhance its display capabilities on an annual basis in years 3 through 5. Some of the enhancements that have already been envisioned include:

- Provide sorting options of provider data presented after an address search is performed
- Provide public, private, state feedback loops within application environment as noted above
- Provide enhanced data layer mapping, queries, and reporting
- Incorporate address data into application search and reporting
- Create executive dashboard for summary statistics
- Other enhancements as identified by end user feedback

Georgia will also make the public Interactive Portal compliant with the Safari browser for Mac Users as a growing number of users in the state use Apple Products.



State of Georgia Local and Regional Broadband Planning (3 pages)

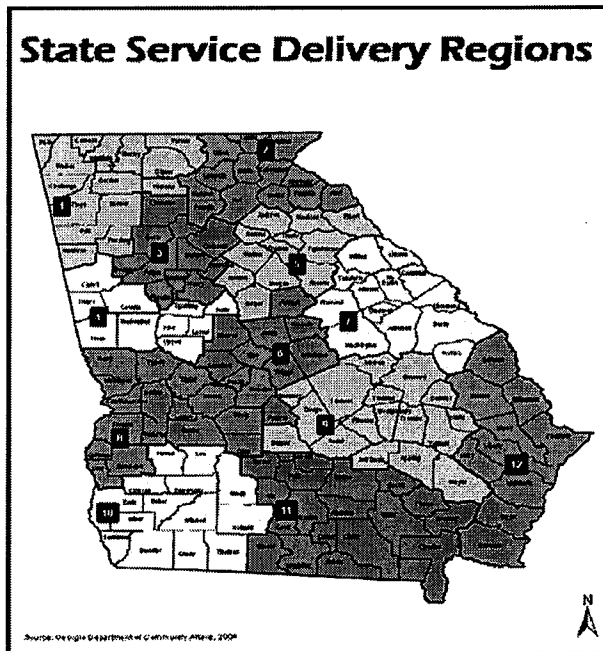
NAME: State of Georgia Local and Regional Broadband Planning

FUNDS AWARDED: \$0

FUNDS REQUESTED: \$922,040

PROBLEM: A big barrier to the adoption of broadband is community anchor institutions do not have the capacity to plan for broadband under their span of control. This leads to CAI engaging into relationships with vendors, consultants and not truly absorbing how services map to goals and objectives. In addition, and most CAI's need to grow thought leadership, expertise and governance structures to manage this utility. The promise is that leveraging skills to broadband from familiar capital projects such as construction, water and sewer, and library expansion will increase entities success factors to be a contributing partner to the broadband ecosystem in their areas.

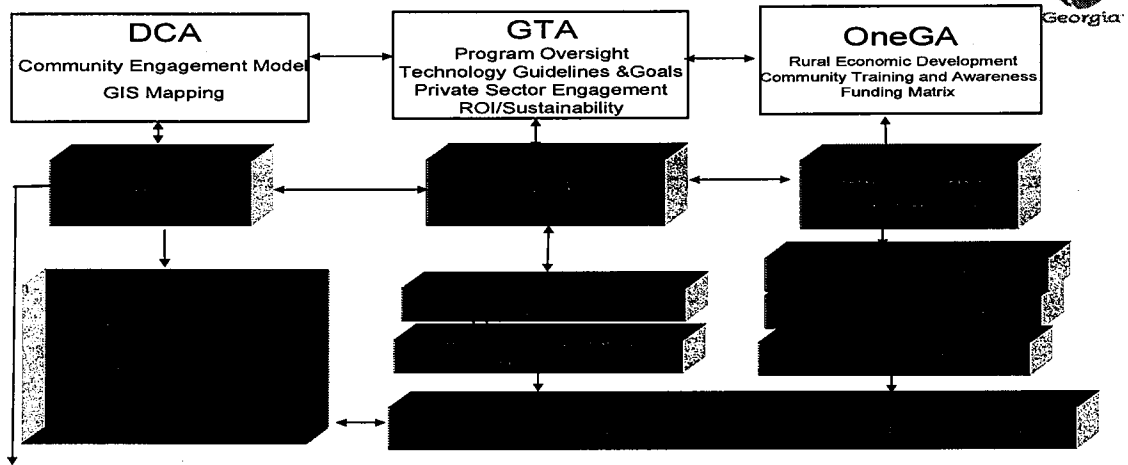
SOLUTION: Engage CAI to develop local/regional technology plans specific to their area. Collecting this information will allow for synergistic collaborations and identification of gaps in broadband coverage, and the capacity building that is needed to introduce, deploy and maintain broadband in a given area throughout the state. We have 12 regional commissions in the state that cover our 159 counties. This will be the organizations that will be responsible for engaging with counties, local entities and community group to develop technology plans. These funds will be used to develop templates, provide guidance to complete plans over a three year period. Our mapping datasets will assist in us developing more realistic plans.



Georgia Regional Commission Areas



Broadband Communities Georgia Collaboration Model



Page:10

Georgia Broadband Center of Excellence

June, 2010

OUTCOMES AND BENEFITS:

This activity will be directed under the Georgia Broadband Center of Excellence and will design , develop, provide assistance in the use of mapping data, local and state expertise to design a technology plan for all 12 regional commission areas in the state of Georgia.

Enclosed are the anticipated benefits of our local and regional broadband planning efforts:

Type	Metric	Impact/Value
Design broadband templates and online system to receive technology plans	Expand mapping website to receive broadband plans by June 1, 2011	Increase transparency on CAI needs and desires for broadband in the unserved and underserved areas as identified in Georgia datasets maps
Broadband Plan	Receive 12 broadband plans from each of our 12 regional commissions by June 1, 2012	Assess the expertise and broadband needs at the local and regional levels.
Technical Assistance Workshops	Hold 12 regional commission workshops beginning June 1, 2011 through October 1, 2011 and repeating these activities June 1, 2012 through October 1, 2012	Prepare CAI for technology plans and answer questions and assist entities to apply.
Analysis of Broadband Plans	Create gap analysis from received technology plans to determine patterns August 1, 2012	Analysis will result in specific programs that will assist CAI is being more effective and participating in partnering and collaborating to improve broadband situation



Tracking CAI Activities	Track number of broadband engagements under way and major milestones and target completion dates	Will inform public policy makers, citizens and other stakeholder on activities throughout the state of Georgia. This transparency will help anticipate broadband expansion and drive broadband adoption programs.
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COST:

Major cost components include:

- Development of Regional Plans at \$50,000 per region for the state’s 12 regional planning districts.
- Professional planning consulting at \$140,000 over three years
- Travel budget of \$52,800 over 3 years to support regional planning

Total \$922,040

SBDD PURPOSE: The mapping program is the foundation of gathering facts through identifying unserved and underserved to the best levels formulates our state’s challenges as accurately as possible. This core foundation directly correlates to how we formulate our CAI technology broadband plan.

Broadband Thought Leadership – State of Georgia

Organization	Description	Contact
Georgia Center for Advanced Telecommunications Technology (GCATT)	GCATT is an initiative to create real and virtual research centers of excellence in advanced telecommunications - the latest	Dr. Nikil Jayant - Director rex.smith@ece.gatech.edu 404-894-9212
Center for Telehealth Medical College of Georgia	To develop, investigate and implement telecommunication and information technologies that will Enhance access to health care in underserved rural and urban areas	Max E. Stachura, M.D. - Director maxs@mcg.edu 706-721-6616
OneGeorgia Authority – BRIDGE	The Broadband Rural Initiative to Develop Georgia’s Economy (BRIDGE) Fund provides financial assistance including grants and loans to support deployment of high-speed broadband in rural areas of Georgia. At the Governor’s request, the General Assembly has appropriated \$5M for BRIDGE broadband projects.	Nancy Cobb – Director nancy.cobb@onegeorgia.org 478 274-7734
Georgia Technology Authority (GTA) – Wireless Communities Georgia	The Georgia Technology Authority seeks to ensure that the state’s IT infrastructure is stable, secure and well-governed, and provides Georgians with the services they need and expect.	Rich Calhoun – Program Director richard.calhoun@gta.ga.gov



	<p>The Wireless Communities Georgia program provides funding to local governments to build wireless networks in their communities. Wireless connectivity allows users to access the internet through personal computers, PDA's and other wireless devices. At the Governor's request, the General Assembly has appropriated \$6M for Wireless Communities Georgia grants.</p>	<p>4044635906</p>
<p>Georgia Technology Authority - State of Georgia Broadband Initiative</p>	<p>The Georgia Broadband Initiative is the unified state effort dedicated to furthering the state's broadband infrastructure and utilization. Its partners include Outreach, Public Safety, Education, Healthcare, Economic Development, Rural Development, Office of Planning and Budget, Georgia Telephone Association, Georgia Cable Association, ILECs, and numerous cellular commercial carriers. The Initiative's activities include broadband mapping, community education, technical assistance, governance and business model assistance, and project oversight. The Georgia Broadband Initiative has catalogued 96 public and private sector proposed ARRA broadband projects for Georgia as part of its work at the website www.georgiabroadband.net.</p>	<p>Rich Calhoun – Program Director richard.calhoun@gta.ga.gov 4044635906</p>



State of Georgia Budget Summary- Narrative - July 1, 2010

	Applicant	Fed	Total	Applicant	Fed	Notes
Mapping	339,240	1,646,000	1,985,240	17%	83%	Include staff resource; six datasets; integration to mapping data to community Anchor institutions (CAI)
Capacity Building	396,240	582,440	978,680	40%	60%	Development of Georgia Broadband Center of Excellence; engagement of public policy leadership and CAI
Local Planning	114,240	807,800	922,040	12%	88%	Development and execution of technology regional and local plans to assess broadband need, use, capacity and adoption needs
Total	849,720	3,036,240	3,885,960	22%	78%	

Georgia Substantive Budgets - State of Georgia
\$800

Cost	Yearly Salary	Percent Dedicated	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Notes
Personnel Salaries															
Rich Calhoun, GTA	120,000	20%	24,000	0	24,000	24,000	0	24,000	24,000	0	24,000				72,000
Person to be selected	40,000	10%	4,000	0	4,000	4,000	0	4,000	4,000	0	4,000				12,000
Total			28,000	0	28,000	28,000	0	28,000	28,000	0	28,000				84,000
Personnel Fringe Benefits															
36%			8,640	-	8,640	8,640	-	8,640	8,640	-	8,640				25,920
36%			1,440	-	1,440	1,440	-	1,440	1,440	-	1,440				4,320
Total			10,080	0	10,080	10,080	0	10,080	10,080	0	10,080				30,240
Travel															
Airfare				4,000	4,000		4,000	4,000		4,000	4,000				12,000
Mileage				2,000	2,000		2,000	2,000		2,000	2,000				6,000
Hotel and Meals				1,000	1,000		1,000	1,000		1,000	1,000				3,000
Total			0	7,000	7,000	0	7,000	7,000	0	7,000	7,000				21,000
Equipment															
Third Party data, eg American Roamer				20000	20000		20000	20000		20000	20000				60,000
Total			0	20,000	20,000	0	20,000	20,000	0	20,000	20,000				60,000
Materials/Supplies															
Miscellaneous				5000	5000		5000	5000		5000	5000				15,000
Total			0	5,000	5,000	0	5,000	5,000	0	5,000	5,000				15,000
Subcontracts															
Produce 6 datasets (2x per year) to NTIA and inclusion of best practices			0	600,000	600,000	0	500,000	500,000		450,000	450,000				1,550,000
Overnight and Validation			75,000		75,000	75,000		75,000	75,000		75,000				225,000
Total			75,000	600,000	675,000	75,000	500,000	575,000	75,000	450,000	525,000				1,775,000
Construction															
Total			0	0	0	0	0	0	0	0	0				0
Other															
Total			0	0	0	0	0	0	0	0	0				0
Total Direct Costs			113,080	632,000	745,080	113,080	532,000	645,080	113,080	482,000	595,080				1,985,240
Total Indirect Costs															0
Total Costs			113,080	632,000	745,080	113,080	532,000	645,080	113,080	482,000	595,080				1,985,240
Match															0

Total Resources 1,889,240

Georgia Substantive Budgets - Capacity Building
GBCOE

Cost	Yearly Salary	Percent Dedicated	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Notes
Personnel Salaries															
GBCOE Director	Rich Calhoun, GTA	120,000	60%	30,000	42,000	72,000	30,000	42,000	72,000	30,000	42,000	72,000			216,000
Administrator	Person to be selected	40,000	80%	32,000	0	32,000	32,000	0	32,000	32,000	0	32,000			96,000
Educational Specialist	Person to be selected	80,000	40%	16,000	16,000	32,000	16,000	16,000	32,000	16,000	16,000	32,000			96,000
Total				78,000	58,000	136,000	78,000	58,000	136,000	78,000	58,000	136,000	156,000	116,000	408,000
Personnel Fringe Benefits															
GBCOE Director	36%			10,800	15,120	25,920	10,800	15,120	25,920	10,800	15,120	25,920			77,760
Administrator	36%			11,520	-	11,520	11,520	-	11,520	11,520	-	11,520			34,560
Educational Specialist	36%			5,760	5,760	11,520	5,760	5,760	11,520	5,760	5,760	11,520			34,560
Total				28,080	20,880	48,960	28,080	20,880	48,960	28,080	20,880	48,960	56,160	41,760	146,880
Travel															
Airfare	Trips in GA for collaboration and reporting				4,000	4,000		4,000	4,000		4,000	4,000			12,000
Mileage	For outreach, workshops, and collaboration				10,000	10,000		10,000	10,000		10,000	10,000			30,000
Hotel and Meals	Overnight stays for trips more than 2 hours from Atlanta (12)				3,600	3,600		3,600	3,600		3,600	3,600			10,800
Total				0	17,600	17,600	0	17,600	17,600	0	17,600	17,600	0	35,200	52,800
Equipment															
Data Repository					40,000	40,000									40,000
Total				0	40,000	40,000	0	40,000	40,000	0	40,000	40,000	0	40,000	40,000
Materials/Supplies															
Miscellaneous	webinar expenses, workshop hosting, etc				5,000	5,000		5,000	5,000		5,000	5,000			15,000
Total				0	5,000	5,000	0	5,000	5,000	0	5,000	5,000	0	15,000	15,000
Subcontracts															
Community Anchor Institution Specialist 2	Contractor to be selected	90,000	50%	22,500	22,500	45,000	22,500	22,500	45,000						90,000
Mapping Coordinator	Person to be selected	110,000	30%	16,500	16,500	33,000	16,500	16,500	33,000						66,000
Event management and hosting services - Georgia Technology	To analyze return on investment and sustainability models and promote collaborative partnerships				80,000	80,000									80,000 fixed fee for service
Interactive Statewide Plan					15,000	15,000		15,000	15,000		15,000	15,000			45,000
Total				39,000	134,000	173,000	39,000	54,000	93,000	0	15,000	15,000	78,000	203,000	281,000
Construction															
Total				0	0	0	0	0	0	0	0	0	0	0	0
Other															
Office space for contractors	3 cubicals, phone, use of conference room, network access				15,000	15,000		20,000	20,000						35,000
Total				0	15,000	15,000	0	20,000	20,000	0	0	0	0	0	35,000
Total Direct Costs				145,080	290,480	435,560	145,080	175,480	320,560	106,080	116,480	222,560			978,680
Total Indirect Costs															0
Total Costs				145,080	290,480	435,560	145,080	175,480	320,560	106,080	116,480	222,560			978,680
Match															0
Total Resources		710,880						978,680					978,680		978,680

Georgia Substantive Budgets - State of Georgia
Local and Regional Broadband Planning

Cost	Yearly Salary	Percent Dedicated	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Notes
Personnel Salaries															
Rich Calhoun, GTA	120,000	20%	24,000	0	24,000	24,000	0	24,000	24,000	0	24,000				72,000
Administrator	40,000	10%	4,000	0	4,000	4,000	0	4,000	4,000	0	4,000				12,000
Total			28,000	0	28,000	28,000	0	28,000	28,000	0	28,000	56,000	0	84,000	0
Personnel Frings Benefits															
GBCOE Director	36%		8,640	-	8,640	8,640	-	8,640	8,640	-	8,640				25,920
Administrator	36%		1,440	-	1,440	1,440	-	1,440	1,440	-	1,440				4,320
Total			10,080	0	10,080	10,080	0	10,080	10,080	0	10,080	20,160	0	30,240	0
Travel															
Airfare				4,000	4,000		4,000	4,000		4,000	4,000				12,000
Mileage				10,000	10,000		10,000	10,000		10,000	10,000				30,000
Hotel and Meals				3,600	3,600		3,600	3,600		3,600	3,600				10,800
Total			0	17,600	17,600	0	17,600	17,600	0	17,600	17,600	0	35,200	52,800	0
Equipment															
Total			0	0	0	0	0	0	0	0	0	0	0	0	0
Materials/Supplies															
Miscellaneous				5,000	5,000		5,000	5,000		5,000	5,000				15,000
Total			0	5,000	5,000	0	5,000	5,000	0	5,000	5,000	0	15,000	15,000	0
Subcontracts															
Produce Regional Plans (12 across the state)	\$50,000 per region		0	250,000	250,000	0	250,000	250,000		100,000	100,000				600,000
2 Planning Analysts (design plan and conduct gap analysis on finished plans)	Person to be selected		0	80,000	80,000	0	40,000	40,000		20,000	20,000				140,000
Total			0	330,000	330,000	0	290,000	290,000	0	120,000	120,000	0	450,000	740,000	0 sized fee for service
Construction															
Total			0	0	0	0	0	0	0	0	0	0	0	0	0
Other															
Total			0	0	0	0	0	0	0	0	0	0	0	0	0
Total Direct Costs			38,080	352,600	390,680	38,080	312,600	350,680	38,080	142,600	180,680				922,040
Total Indirect Costs															0
Total Costs			38,080	352,600	390,680	38,080	312,600	350,680	38,080	142,600	180,680				922,040

Total Resources

854,240

Local
Planning
Capacity
140 432
66
206 226 75.333333

	AZ	MT	NV	NH	SD	RI	VI	ND	GA	PA	UT
Personnel Salaries	\$10,322		\$10,064	\$155,099	\$204,191	\$342,405		\$531,621	\$530,000		
Personnel Fringe Benefits	\$0		\$102,802	\$30,411	\$60,892	\$111,117		\$214,422	\$189,525		
Travel	\$0		\$57,765	\$9,500	\$9,970	\$12,500		\$38,355	\$54,500		
Equipment	\$200,512		\$79,913	\$10,000	\$368,180	\$25,000		\$9,299	\$22,150		
Materials/Supplies	\$0		\$12,175	\$83,004		\$60,000		\$3,382	\$14,850		
Subcontracts	\$1,422,300		\$247,833	\$1,277,955	\$1,361,398	\$980,950		\$889,853	\$1,807,500		
Construction	\$0		\$0			\$0		\$0	\$0		
Other	\$222,000		\$190,090	\$389,642	\$288,349	\$396,353		\$330,260	\$102,000		
Total Direct Costs	\$2,749,634		\$1,830,642	\$1,955,611	\$2,293,080	\$1,928,325		\$2,017,192	\$2,770,525		
Total Indirect Costs	\$117,515		\$519,445	\$98,672	\$81,016	\$0		\$0	\$0		
Total Costs	\$2,867,149		\$1,850,087	\$2,054,283	\$2,374,096	\$1,928,325		\$2,017,192	\$2,770,525		
Non-Federal Funds	\$573,576		\$421,761	\$418,568	\$474,819	\$385,665		\$403,438	\$576,825		
Non-Federal Cost Share	20.01%		23%	20.38%	20%	20.00%		20%	20.82%		
Federal Funds	\$2,293,573		\$1,428,326	\$1,635,715	\$1,899,277	\$1,542,660		\$1,613,754	\$2,193,700		
Federal Cost Share	79.99%		77.20%	79.62%	80.00%	80.00%		80.00%	79.18%		
Program Income	\$0										
Sent To NIST?	Yes		Yes		Yes	Yes		Yes	Yes		
Sent to Theresa?	Yes		Yes	Yes	Yes	Yes		yes	Yes		

