U.S. DEPARTMENT OF COMMERCE **Performance Progress Report**	2. Award Or Grant Number 04-50-M09045
	4. Report Date (MM/DD/YYYY) 10-11-2011

1. Recipient Name Arizona - Government Information Technology Agency	6. Designated Entity On Behalf Of: N/A	
3. Street Address 100 N. 15th Avenue, Suite 440,	8. Final Report? ○ Yes ◉ No	9. Report Frequency ◉ Quarterly ○ Semi Annual ○ Annual ○ Final
5. City, State, Zip Code Phoenix, AZ 85007		

7. Project / Grant Period Start Date: (MM/DD/YYYY) 12-20-2009	7a. End Date: (MM/DD/YYYY) 12-19-2014	7b. Reporting Period End Date: 09-30-2011	9a. If Other, please describe: N/A

10. Broadband Mapping   10a. Provider Table

Number of Providers Identified	Number of Providers Contacted	Number of Agreements Reached for Data Sharing	Number of Partial Data Sets Received	Number of Complete Data Sets	Number of Data Sets Verified
0	0	0	0	0	0

10b. Are you submitting the required PROVIDER DATA by using the Excel spreadsheet provided by the SBDD grants office? ○ Yes ◉ No

10c. Have you encountered challenges with any providers that indicate they may refuse to participate in this project? ◉ Yes ○ No

10d. If so, describe the discussions to date with each of these providers and the current status

We have a single provider that refused to participate in the project and that explicitly required that we not provide its data set in our submittal. That provider is the Gila River Telecommunications Inc. (GRTI), whose general manager specifically requested that we not provide the GRTI data. The general manager's request came after a series of queries to knowledgeable persons within the GRTI technical and management. Thus, the GRTI management had an opportunity to fully vet its preferences as to whether to make available its broadband coverage and speed data to the NTIA.

A significant success this cycle was with Casa Grande Internet, Inc. (CGI)—whom had requested we not report its data in the Spring 2011 cycle. However, our Team entered into additional communications with CGI this cycle—emphasizing potential benefits that CGI could receive by being listed in the NTIA and State of Arizona broadband maps. These additional discussions convinced CGI personnel to embrace the program—at least to the extent that they would participate in this cycle. We now have the task of expanding this initial basis of good will as we re-engage CGI in subsequent cycles.

10e. If you are collecting data through other means (e.g. data extraction, extrapolation, etc), please describe your progress to date and the relevant activities to be undertaken in the future

We collect data both directly from provider and by other means, including mapping coverage areas based on known locations of DSLAMs, towers and fiber infrastructure. Our mapping of potential coverage uses the same engineering techniques that carrier plant engineers use when internally engineering their broadband plant.

Once we have ascertained the particular technology (ies) that a given provider uses and its specific middle-mile infrastructure elements, we use that information in conjunction with known and accepted engineering practices to establish likely coverage and speeds for the provider. We then reduce the engineered design to maps and share the maps with the provider—asking for their concurrence and any corrections they determine appropriate. We also validate the engineered maps with third party coverage and speed data sources—including American Roamer (www.americanroamer.com), IDInsight and federal crowd-source data. We also utilize new address locators based on the Navteq (www.navteq.com) street network data. We openly share our findings with the provider, such that we can build credibility as to the engineering approach and validity of the maps—and we encourage the provider to candidly correct the maps. We also make the maps available to the provider for its internal use and marketing.

This approach has been particularly well received with smaller ISPs that are struggling to provide their customers with quality service. These providers often require such maps in multiple formats for their various uses, which we accommodate.

10f. Please describe the verification activities you plan to implement

We have identified the following data sources for our verification processes.

• American Roamer database
• Cable Boundaries data from ESRI
• FCC Form 477 data
• FCC crowd-source database
• IDInsight crowd-sourced database
• Navteq street network database
• PowerSearch databases including FCC, FAA, licensed microwave, and tower structures
• SiteSync, eCoverage signal propagation and terrain coverage
• TeleAtlas Central Offices & Wire Centers from ESRI.

As reported in our Q2 report, we launched the "Arizona Broadband Map" and the "AZ Broadband Project" public portal (www.azbroadband.gov). The site is updated regularly and gives a detailed information on the Arizona Broadband Project, news and events, resources, the Arizona Broadband Development Council and Task Group (in Q4) information.

As CAI data is collected it is our intention that this will become a useful layer to verification, as specific providers are identified at specific geo-coded addresses.

10g. Have you initiated verification activities? ⦿Yes ◯No

10h. If yes, please describe the status of your activities

We have implemented verification processes utilizing the following data sources—in both the Spring 2011 (December 2010 data) and Fall 2011 (June 2011) data sets.

• American Roamer database
• FCC crowd-source database
• FCC Form 477 data
• Cable Boundaries data from ESRI
• IDInsight crowd-sourced database
• Navteq street network database
• PowerSearch databases including FCC, FAA, licensed microwave, and tower structures
• SiteSync, eCoverage signal propagation and terrain coverage
• TeleAtlas Central Offices & Wire Centers from ESRI.

We have submitted a white paper (Arizona Broadband Assessment Project White Paper, Submission 3, dated April 1, 2011) that provides additional information as to how we use these verification data sources.

10i. If verification activities have not been initiated please provide a projected time line for beginning and completing such activities

N/A

Staffing

10j. How many jobs have been created or retained as a result of this project?

The number of jobs retained and funded by Recovery Act dollars during 3rd Quarter 2011 was 7.32 jobs as calculated using the hours worked and paid for with Recovery Act funds divided by 520 quarterly hours available.

10k. Is the project currently fully staffed? ⦿Yes ◯No

10l. If no, please explain how any lack of staffing may impact the project's time line and when the project will be fully staffed

N/A

10m. When fully staffed, how many full-time equivalent (FTE) jobs do you expect to create or retain as a result of this project?

Approximately 7 to 7.5 FTE

10n. Staffing Table

Job Title	FTE %	Date of Hire
Broadband Grant Project Manager (FT)	100	05/15/2011
Mapping Technology Expert (FT Mapping Contractor)	100	02/26/2010
Mapping Application Expert (FT working in correlation with AZ State Land Dept)	100	02/26/2010
Provider NDA Outreach Specialist (FT Mapping Contractor)	100	02/26/2010
Community Anchor Institution & Tribal Outreach Specialist (PT Mapping Contractor)	80	02/26/2010
Broadband Planning Program Manager (FT)	100	04/02/2010
Broadband Planning and Mapping Program Assistant (PT Program Management)	72	02/26/2010
Communications Outreach Manager (PT Program Management)	80	05/15/2011

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Sub Contracts

10o. Subcontracts Table

Name of Subcontractor	Purpose of Subcontract	RFP Issued (Y/N)	Contract Executed (Y/N)	Start Date	End Date	Federal Funds	In-Kind Funds
#1 Data-Site Consortium	Provider data aggregation, transformation and analysis, mapping expert consulting.	N	Y	02/03/2010	12/19/2014	2,452,141	0
#2 ESRI	Maintenance- base hardware/software	N	N	02/01/2010	12/19/2014	193,624	15,000
#3 E911 Offices (State & County)	Obtain, develop, update Street and Address data bases	N	N	02/01/2010	12/19/2014	503,736	130,000
#4 ATII	Technical assistance to local communities	N	N	09/28/2010	12/19/2014	200,000	50,000
#5 AZ ADOA; Other In-Kind Vendors; All other vendor payments under $25K	Maintain hosting environment at AZ ADOA Data Center; Support services.	N	N	02/01/2010	12/19/2014	327,093	153,400

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Funding

10p. How much Federal funding has been expended as of the end of the last quarter? $1,840,889   10q. How much Remains? $4,517,290

10r. How much matching funds have been expended as of the end of last quarter? $559,298   10s. How much Remains? $1,052,717

10t. Budget Worksheet

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Personal Salaries	$2,178,036	$530,976	$2,709,012	$765,980	$230,540	$996,520
Personnel Fringe Benefits	$0	$0	$0	$0	$0	$0
Travel	$19,197	$138,540	$157,737	$3,517	$3,783	$7,300
Equipment	$121,373	$110,448	$231,821	$61,113	$43,000	$104,113
Materials / Supplies	$0	$0	$0	$0	$0	$0
Subcontracts Total	$3,676,594	$348,400	$4,024,994	$981,504	$0	$981,504

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Subcontract #1	$2,452,141	$0	$2,452,141	$898,614	$0	$898,614
Subcontract #2	$193,624	$15,000	$208,624	$57,660	$0	$57,660
Subcontract #3	$503,736	$130,000	$633,736	$0	$0	$0
Subcontract #4	$200,000	$50,000	$250,000	$0	$0	$0
Subcontract #5	$327,093	$153,400	$480,493	$25,230	$0	$25,230
Construction	$0	$0	$0	$0	$0	$0
Other	$320,000	$262,000	$582,000	$0	$188,400	$188,400
Total Direct Costs	$6,315,200	$1,390,364	$7,705,564	$1,812,114	$465,723	$2,277,837
Total Indirect Costs	$42,979	$221,651	$264,630	$28,775	$93,575	$122,350
Total Costs	$6,358,179	$1,612,015	$7,970,194	$1,840,889	$559,298	$2,400,187
% Of Total	80	20	100	77	23	100

Hardware / Software

10u. Has the project team purchased the software / hardware described in the application? ●Yes ○No

10v. If yes, please list

No new activity since 2011 Q2 PPR (project team has purchased the required software/hardware for each of the above identified verification data sources).

10w. Please note any software / hardware that has yet to be purchased and explain why it has not been purchased

Most of the identified verification data sources are subscription based—thus requiring annual renewal of associated licensing. All current-year licensing has been purchased. We will continue to renew the annual licensing in subsequent years as required.

10x. Has the project team purchased or used any data sets? ●Yes ○No

10y. If yes, please list

Each of the identified data sets have been purchased for the current project years, except the FCC crowd-source database and the FCC Form 477 data, which are made available free-of-charge.

10z. Are there any additional project milestones or information that has not been included? ○Yes ●No

10aa. If yes, please list

NOTE We continue to search for additional verification sources. At this time, we are evaluating the potential for using Akamai data (such as was used by Akamai in generating The State of the Internet Report e.g., Volume 4, Number 1, 2011), Telogical pricing data (www.telogicalsystems.com), Mobiperf (www.mobiperf.com), and Rootmetrics (www.rootmetrics.com).

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing

We invite the reader to also view the Arizona Broadband Assessment Project White Paper, Submission 3, dated April 1, 2011.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project

The Arizona Broadband Information web portal, which was debuted to the public in Q2, provides the public with general information on AZ Dept of Administration - ASET's (formerly GITA's) mapping, planning and outreach projects, broadband speed tests, past and

future AZ Broadband Development Council meetings (including agendas, minutes, presentations, audio recordings, and more), and to provide us with feedback.

NOTE Q2 2011 PPR had been returned because the amount of Federal Funds expended for Subcontracts #2-5 was not consistent with the total listed for the vendors in the ARRA Report. The Section 1512 reports for this grant are submitted to the State of Arizona Governor's Office of Economic Recovery who then submits the information to federalreporting.gov. The vendor payments submitted for the ARRA Section 1512 report are downloaded directly from the Arizona Financial Information System and are not sorted by budget category such as personnel, travel, equipment, subcontracts, etc. Therefore, the list of all vendor payments in the ARRA report would include payments for items other than budgeted subcontracts such as equipment and professional staff categorized as personnel in the budget. The total of the vendor payments on the Section 1512 ARRA report will consistently include payments to other budget categories and will therefore not tie to the subcontracts tables in 10.o. and 10.t.

As a result of the merger between GITA and the AZ Department of Administration during 2011 Q3, GITA has been officially absorbed into ADOA. As a result, ADOA accounting staff is currently in the process of updating the AZ GITA DUNS number assigned to the grant to reflect the merger with ADOA. It is our intention that the required documents will be submitted during Q4 to complete this update process. We are in receipt of an e-mail and attached document from Lynn Chadwick dated 10/25/2011 containing instructions on how to manage this update process (Transfer of Award).

11. Broadband Planning

11a. Please describe progress made against all goals, objectives, and milestones detailed in the approved Project Plan. Be sure to include a description of each major activity / milestone that you plan to complete and your current status

During Q3, the AZ Broadband Team has made significant process in reaching our program goals and objectives. These are summarized in the attached Q3 Supplemental Answers Document.

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

The challenges or obstacles and details of mitigation strategies the project team is employing are summarized in the attached "Q3 Supplemental Answers Document". We intend to meet original objectives over the next few quarters, while staying on schedule for current and new objectives and goals.

11c. Does the Project Team anticipate any changes to the project plan for Broadband Planning? ◯ Yes ◉ No

11d. If yes, please describe these anticipated changes. Please note that NTIA will need to approve changes to the Project Plan before they can be implemented

N/A

Funding

11e. How much Federal funding has been expended as of the end of the last quarter? $0   11f. How much Remains? $0

11g. How much matching funds have been expended as of the end of last quarter? $0   11h. How much Remains? $0

11i. Planning Worksheet						
Personal Salaries	$0	$0	$0	$0	$0	$0
Personnel Fringe Benefits	$0	$0	$0	$0	$0	$0
Travel	$0	$0	$0	$0	$0	$0
Equipment	$0	$0	$0	$0	$0	$0
Materials / Supplies	$0	$0	$0	$0	$0	$0
Subcontracts Total	$0	$0	$0	$0	$0	$0
Subcontract #1	$0	$0	$0	$0	$0	$0
Subcontract #2	$0	$0	$0	$0	$0	$0

11i. Planning Worksheet						
Subcontract #3	$0	$0	$0	$0	$0	$0
Subcontract #4	$0	$0	$0	$0	$0	$0
Subcontract #5	$0	$0	$0	$0	$0	$0
Construction	$0	$0	$0	$0	$0	$0
Other	$0	$0	$0	$0	$0	$0
Total Direct Costs	$0	$0	$0	$0	$0	$0
Total Indirect Costs	$0	$0	$0	$0	$0	$0
Total Costs	$0	$0	$0	$0	$0	$0
% Of Total	0	0	0	0	0	0

Additional Planning Information

11j. Are there any additional project milestones or information that has not been included?

N/A

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

Please see 11b and attached Q3 Supplemental Answers Document.

11l. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project

Please see NOTE under question 10cc above.

12. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purpose set forth in the award documents.	
12a. Typed or Printed Name and Title of Authorized Certifying Official Barbara Nicholson CFO	12c. Telephone (area code, number, and extension) (602) 364-4794
	12d. Email Address BNicholson@azgita.gov
12b. Signature of Authorized Certifying Official Submitted Electronically	12e. Date Report Submitted (Month, Day, Year) 10-28-2011