

Q2-2013 Arizona Supplemental Answers Document

This attachment to our Q2 PPR details progress made against all goals, objectives, and milestones detailed in the approved Project Plan. Included is a description of each major activity / milestone planned for completion and current status.

Task	Year 4, Q2 (Apr 1 – June 30, 2013) Primary Milestone(s)	Complete By	Q2 Response	Corresponding Primary Activities
Capacity Building				
1.1	Continuously Update activities related to Digital Arizona Council (DAC)	Ongoing	Delayed as of Q2	Maintain schedule & activities related to Digital Arizona Council (DAC) including various Task Groups. Although the Q2 & Q3 DAC meetings have been cancelled at the direction of the Chairman, plans remain to resume these meetings in coming quarters.
1.2	Strategic Plan - Work includes use of data from the mapping project to create and maintain a Statewide Strategic and Tactical Broadband plan, with emphasis on Broadband deficit areas of the State.	Ongoing	Current as of Q2	<p>The Strategic Plan was updated in Q1. The plan continues to be communicated with each region of the State via the Digital AZ portal www.digitalaz.gov. We will continue to communicate updates and changes to the Plan as it evolves. The updated version is posted to the Digital AZ portal (AZ Broadband Strategic Plan). The three versions continue to stand in DRAFT form until the Digital Arizona Council decides to adopt or approve, (1) a full unabridged version, (2) a condensed version, and (3) an executive summary version.</p> <p>We continue to maintain a relationship with the AZ Department of Transportation (ADOT), the AZ Department of Education (ADE), regional Councils of Government (COGs), regional government consortiums, and others to pursue the vision of Digital Arizona Highways SB1402. We have been asked to serve as Subject Matter Experts (SMEs) to support the Governor's Office of Education Innovation in support of Arizona Ready (Arizona's Education Reform Plan) regarding a statewide education network initiative to improvement digital capacity infrastructure to AZ schools. This alliance and collaborative effort will continue indefinitely as the AZ education network initiative continues to be developed.</p>
1.2	ASET Team and Digital Arizona Council (DAC) Task Group Formalize and Maintain a Statewide Digital Arizona Broadband Plan	Ongoing	Current as of Q2	<p>The continued coordination and feedback between regions of the state and the recently updated DRAFT version of the Strategic Plan will continue to be coordinated through the DAC, DigitalAZ.gov, COGs, and other interested parties.</p> <p>ASET and the Council will continue to periodically update the plan and send the updates to other Stakeholders. Current versions of the plan are available to the public on our website.</p>
1.3	Capacity Building - continuous use of Broadband Team, including Staff support of DAC and to actualize Contracts for Broadband Policy work. As part of Capacity Building, Broadband Team definitions and Various Tasks to accomplish and support ASET's Broadband Requirements. Tasks will be performed and accounted for with	Recurring	Current as of Q2 Except for Cancelled DAC Mtgs.	<p>The DAC did not hold its 8th public meeting in Q2.</p> <p>The DAC Chairman has communicated to us that he intends to continue council meetings in future quarters.</p> <p>On a strictly policy and facilitation basis, as part of SB1402, Digital Arizona project stakeholders continue to communicate with out-of-state funding sources regarding a potential infrastructure project to connect the City of Payson back to the Phoenix area with high capacity broadband backhaul</p>

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	Allocations for Capacity Building			<p>connectivity through the laying of conduit facilitated by existence of SB1402.</p> <p>ASET Broadband Team's Leadership Activities continue to include Manager Meetings, Budget Approval, Broadband Team Management (Personnel Review, Policy etc.), distribution of DAC materials on www.digitalaz.gov, state agency coordination with ADOT, Department of Education. Additionally, the project team continues to work on our contractor outreach efforts to the rural Councils of Government (COGs).</p> <p>We continue exploring the potentiality of a public-private partnership (PPP) formation as a structure to create a public/private stand-alone Office to support the long term sustainability of our efforts well past the federal grant expiration date. This PPP would be supported by alternate funding mechanisms. Conversations with potential funding entities have increased and we are receiving positive feedback from various stakeholders regarding the potential impact of such a non-profit type entity.</p> <p>Specifically, a major national railroad with a significant presence in AZ has indicated a conditional willingness to become a funding source of the PPP subject to other funders stepping forward. As of this writing, we are also engaged in early conversation with two major power utilities regarding funding the PPP and/or supplying or utilizing rights-of-way that would be brokered by the PPP. This represents a potential shift in policy for these energy companies that can facilitate the availability of significant new routes and facilities for increasing rural AZ middle mile capacity.</p>
2.0	ASET Team to Identify Broadband Policy Needs and required changes via a Task Group - This Task group proposes policies (i.e., Right of Way) that help to either eliminate barriers or improve the likelihood that Broadband Infrastructure may be more easily deployed.	Ongoing	Current as of Q2	<p>Our Vertical ROW and Longitudinal Highway ROW studies have been made public by means of our web portal.</p> <p>With the passage and signing into law of SB1402 – Digital Arizona Highways Act, we continue to implement opportunities that the new law affords, and are creating a framework wherein the activities enabled by this legislation can be managed continued through the establishment of the aforementioned PPP. Additionally, we continue to support the Arizona Telecommunication and Information Council (ATIC) in an effort to engage broadband stakeholders including communities and providers.</p>
2.0	ASET team provides continuous support for the discovery or maintenance of policies (i.e., Right of Way) documentation to further the cause of Infrastructure deployment.	Recurring	Current as of Q2	<p>In an effort to establish an empirical foundational framework for support of needed Policy, best practices, and infrastructure development, we have executed our Mobile Pulse contract for the development of a mobile wireless measurement and testing tool. This free tool is now available in the Android and IOS App Stores. It will provide precise data about the performance of mobile broadband networks. We will use this anonymous data for display, mapping and other broadband analysis activities and submit the summarized, anonymous data by census track and block to NTIA as part of our regular submissions. Additionally, the AZ FirstNet program plans to utilize Mobile</p>

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				<p>Pulse data to identify locations and performance of cell towers throughout the state by carrier and to provide public safety entities with a mechanism for enforcing SLAs with their mobile service providers.</p> <p>We are featuring the free Mobile Pulse app on the Digital Arizona portal. Mobile pulse speed test data will be integrated with survey data captured at the time of the test. We will have access to the anonymous tests from mobile devices downloading the app from this process.</p> <p>We continue to develop a detailed planning, staging and scheduling tool called the "Prioritization Matrix". This tool supports evaluation and assists in determining prioritization of the future statewide conduit build out initiatives and the proper sequencing and staging of these initiatives under the SB1402 framework. We have added the prioritization matrix road segments to the interactive AZ community planning map tool. This capability allows planners to determine all of the demographic data, including CAIs, regarding populations within specific distances of one or more road segments. This will support demand aggregation studies, FirstNet service requirements, educational institution bandwidth needs, etc.</p> <p>We continue working to develop a GIS database framework for the gathering and sustainment of this information. This data is now being graphically integrated into the state broadband community planning map. Our goal next goal is to incorporate user access credentialing and security protocols for sensitive public safety information. We have developed a working relationship with the Mesa Community College Geospatial program director who has agreed to assist us in developing a foundational Geo-database platform.</p> <p>We are currently exploring the integration of our mapping and graphic data with multiple GIS platforms including our existing ESRI platform, Google Earth (extended by PostGIS), and ARCGIS Online. This will make it possible for users to use their preferred GIS analysis platform and to add their GIS or demographic data to an analysis. We will develop training videos to enable local communities and providers to take maximum advantage of these tools.</p>
3.0	Rural/Tribal Economic Development and Tribal Broadband Task Group Support Actives - define needs and promote solutions for Broadband in Rural areas, especially with Economic Development and Business Groups who have unique needs.	Multiple Recurring Meetings	Continuing	<p>We continue to reduce some of the physical on-site meetings in favor of comprehensive outreach by utilizing our web-portal, project specific contractors, and the non-profit entities ATIC and ATIL. As of this writing, the first of our regional outreach meetings managed by ATIC was held in the northern AZ region, specifically in Pinetop/Lakeside on 19th. There will be three additional regional summits across the State as part of our rural outreach.</p> <p>Additionally, we continue our outreach to Tribal and rural communities via region specific web content at www.digitalaz.gov.</p>

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3.0	ASET team to provide continuous support and Outreach to Digital Arizona Council (DAC) Task Group activity - including Outreach to Economic Development, Tribal, and Rural Business Development groups, to promulgate best practices and policies to the local level and align local and State Strategies.	Recurring	Current as of Q2 Except for DAC Task Groups	The project team continues to coordinate forums and educational events geared to remote areas. We met with Rebecca Gau (May 29), Director of the Governor's Office of Education Innovation, as SMEs regarding the AZ education network which is currently being considered by the Governor's office. These discussions included development of the network and infrastructure backbone necessary to assure statewide K12 and higher education institutions have sufficient digital capacity to specifically meet the 2014 PARCC testing commitments by the AZ Department of Education.
4.0	Intergovernmental Broadband & Economic Development Task Groups - These Task Groups may coordinate intergovernmental Broadband needs, including Counties, Cities, Towns, and School Districts as they work toward funding Broadband in their jurisdictions.	Recurring	Current as of Q2	<p>We continue focusing our efforts on the rural Councils of Government (COGs) as a centralized coordination point for this outreach effort. These organizations continue to be effective in reaching further into the depths of rural Arizona also deepening our relationship with ADOT at the regional level. The rural COGs continue to support and champion our community outreach efforts. The county managers in the Southeast region of the state (SEAGO area) are directly supporting our activities through the Cochise County Government.</p> <p>The focus of the rural outreach efforts has been on creating a local cross disciplinary dialogue about the needs for better internet to serve education, health care, public safety, and economic development interests within each community and the avoidance of silo'd solutions.</p> <p>Conversations continue with stakeholder groups like the Arizona Telecommunications and information Council (ATIC). ATIC aggressively assisted with our outreach efforts.</p>
5.0	Impact regional and National Policy: Support Personnel costs associated with outreach activities to various US regional and National professional Stakeholder Communities as required, to facilitate partnerships in Policy solutions, Broadband projects, and dissemination of Best Practices.	Multiple Recurring Meetings	Current as of Q2	<p>We attended, led, and participated in regional and National Broadband discussions.</p> <p>Team members were involved in either the planning of or speaking at the April Rural Telecom Congress (RTC) conference held in conjunction with the Broadband Communities Summit held in Dallas, TX. During that conference we also met with potential railroad financial supporter of the PPP as well as reconnected with a major network builder with significant plans for new construction in AZ. This company is also a potential supporter of the PPP.</p> <p>Additionally, two team members were asked to participate in the planning efforts for the May SBI Workshop held in conjunction with the SHLB/NTIA conference in Washington, DC. We worked with other steering committee members to facilitate and organize the topics and hosts points for table discussions.</p> <p>Our additional outreach efforts continue to include significant discussions on the value of combining state resources in planning the implementation of FirstNet in concert with Arizona's SBI program. In states with low-density rural populations with vast geographic areas; the sharing of resources for the implementation of both programs is critical. We continue the process of merging much of the planning and</p>

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				outreach efforts between the two programs. Our FirstNet project manager presented the current state of FirstNet development to the Pinetop/Lakeside audience to support their understanding of the potential indirect contributions that the implementation of FirstNet may have on bringing enhanced capacity to rural AZ.
Technical Assistance Project				
6.0	The following are Institutional (non-State) and Local providers of Broadband technical support. Dollars will be pass thru from ASET to these institutions. Matching is illustrated here as being from "Travel". Matching could also be from local Personnel allocations or from Other (Cash, local Contracts, etc.). ASET will also provide pass thru value from its "Matching" in-kind sources.	Ongoing	Current as of Q2	<p>As discussed in previous reports, the continued use of letters of agreement for our TA contracts has proven to be very effective.</p> <p>We continue overseeing the ongoing management of the first round of the TA program to the 4 rural COGs (NACOG, WACOG, CAAG, and SEAGO [Cochise County Governments]). Final deliverables for the NACOG and CAAG have been provided to the respective COGs. The four Round-1 Technical Assistance agreements total \$69,100.</p>
6.0	Implement multiple community broadband planning tools, design of sustainable governance & funding models, SB1402 implementation with third parties	Ongoing	Current as of Q2	<p>We continue to develop planning tools accessible through our mapping portal including video tutorials on their use. These tools are being put to use. They are being used extensively in regional and local community capacity planning and technical assistance work being performed by the regions' consultants and the Digital Arizona team for both planning local and statewide programs.</p> <p>As mentioned previously in this report preliminary conversations have begun with third parties about the establishment and funding of a Public-Private Partnership (PPP) as a long term home for the Digital Arizona program. These discussions are progressing with regards to funding and business models. We are continuing to explore the long term potential of assisting ROW owners in their efforts to monetize existing ROW assets throughout the State. These entities include Railroads, Power Utilities, Pipeline, and Canal operators.</p> <p>Our two legal intern-level data analysts continue to facilitate data gathering related to decision matrix ROW availability and planning tool. They were assigned workstations located within the Right of Way department at the AZ Department of Transportation (ADOT). The project will benefit from this research as we prioritize implementation of SB1402 and ROW owned by others.</p>
6.0	Technical Assistance for Local Communities. Via Letters of Agreement they will supply matching dollars as their portion (ASET to manage portfolio of Contracts) three to four Contracts will total 80K per year as pass thru via ATI Institute to entities.	Ongoing	Current as of Q2	<p>The ATI Institute continues to manage the Technical Assistance (TA) process under direction of ASET. We plan to award a total of \$160,000 over years 4 and 5 to the regional COGs for region specific Technical Assistance efforts.</p> <p>Contractors completed the WACOG detailed mapping and gap analysis by county and major communities including broadband services and infrastructure availability using the state's map portal and other GIS resources. They developed the draft WACOG Broadband Technical Report and submitted for</p>

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				<p>review. Additionally, they worked with WACOG and ASET to select the 4 focus regions for Round-2 activities.</p> <p>Contractors working on the CAG and NACOG agreement completed a detailed 25+ page GAP analysis and findings report. These completed reports are available to NTIA upon request.</p> <p>Cochise County is the fiscal agent for the four county southeastern region of Arizona that also includes Graham, Greenlee and Santa Cruz Counties. This effort has started later than the other three regions but is underway and will conclude in Q3.</p>
Local Planning Project				
3.0	Implementation of detailed broadband use case and demand aggregation analysis in selected rural communities and other associated tasks	Ongoing	Current as of Q2	<p>We continue recommending and supporting rural broadband committees to engage local education, healthcare, public safety, and economic development professionals in arriving at jointly created solution for aggregating local demand as a principle method for driving an increase in broadband capacity in their communities.</p> <p>Business case analyses (BCA's), as part of the round-1 LRP agreements with the COGs have been completed with CAG, NACOG, and WACOG (WACOG Report Attached to this PPR, although technically completed and approved in July). Work continues on one other, Cochise County Governments.</p> <p>In WACOG, consultants worked with WACOG staff and others to formally develop the WACOG Broadband Steering Committee with representatives from regional economic development, educational technology, transportation, government IT, healthcare, and public safety stakeholders. A Dropbox folder for Committee document sharing was established. Two committee meetings via teleconference and published meeting minutes were held.</p> <p>Consultants worked with WACOG IT staff to produce a WACOG Broadband Steering Committee web page on the WACOG site http://www.wacog.com/wacog-broadband-steering.html to communicate Broadband Steering Committee background and progress as well as foster community interest in related activities. They completed 10 community snapshot spreadsheets for WACOG population centers which were provided to the WACOG Broadband Steering Committee and mounted on the Arizona Broadband Map http://broadbandmap.az.gov/CommunityPlanningMap/ for public access. A draft WACOG Business Case Assessment (BCA) report was developed and submitted for review. As of this writing, this BCA is complete and approved by ASET as final deliverable for the WACOG LRP round-1 effort.</p> <p>As of this writing, ASET staff has worked with the consultants to select the 4 focus regions for round-2 activities.</p>

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				It is our intention to circulate the reports generated for each of the COG regions with all the other regions throughout the State. Our hope is that this will stimulate additional thinking and create consensus about best practices.
4.0	Implement detailed decision support MATRIX for determining prioritization of SB1402 (AZ Digital Highways Act of 2012) rollout options and other associated tasks	Ongoing	Current as of Q2	<p>We continue to develop the road priority Decision MATRIX to support critical decision making and planning. To facilitate investment decisions by communities and providers for expanding broadband capacity.</p> <p>This tool supports evaluation and assists in determining prioritization of the future statewide conduit build out initiatives based on understanding of population densities, income levels, existing competition, existing ROW and facilities, etc. to assure the proper sequencing and staging of private and public funding initiatives.</p> <p>As mentioned previously, we continue working to develop a GIS database framework for the gathering and sustainment of this information. This data has now been graphically integrated into the state broadband community planning map. We have developed a working relationship with the Mesa Community College Geospatial program director who has agreed to assist us in developing a foundational Geo-database platform.</p>
7.0.	ASET will Manage a program of Local Broadband Planning funding to Local communities and Stakeholder groups. Matching will be provided by recipients. Total funds to pass through to local recipients will equal up to 250k through years 3-5.	Ongoing	Current	<p>Through our Outreach contractors, ASET identified several recipients (COGs) and related community entities within those COGs, for local planning fund contracts to support local capacity building.</p> <p>Two of the four round-1 agreements are finalized (CAGG and NACOG). One is in the process of being closed out (WACOG), and the forth is progressing. Each round one award was for \$30,000 for a total of \$120,000 across the 3 COGs plus the Cochise County Governments.</p> <p>Here is a brief update of progress for each of the four round one LRP and outreach regions:</p> <p>The Northern Arizona Council of Governments (NACOG) management has fully endorsed the broadband outreach efforts in their four county area. NACOG covers approximately one-third of the state's geography. Some 23 communities in this four county region were analyzed through a business case analysis working in concert with technical assistance experts. Community Data Sets included providers/services, speeds, medical clinics, employers, school districts and public safety.</p> <p>A broadband sub-committee has been formed through NACOG and has held three meetings, As of this writing, it has held its first rural half day event in Pinetop/Lakeside that included broadband experts, attendance by key leaders, and the public. This broadband subcommittee met with the USDA's Director in Arizona, Alan Stephens, who discussed federal broadband grant opportunities available through USDA. There was also a</p>

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				<p>presentation delivered at NACOG's Transportation Forum on economic development and broadband in rural communities. The NACOG website has been updated to include new material on broadband.</p> <p>Central Arizona Governments (CAG) management has fully endorsed the broadband outreach effort in their two county area (Gila and Pinal). Over 30 communities, including the Copper Corridor (an economic development coalition), were analyzed through a business case analysis again working in concert with technical assistance experts. Community Data Sets included providers/services, speeds, medical clinics, employers, school districts and public safety. A broadband sub-committee has been formed and this subcommittee has also met with the USDA's state director, Alan Stephens. CAG's websites have been updated with new material.</p> <p>As part of a regional transportation planning exercise broadband was presented to the CAG Transportation Forum. This effort includes planning concepts to incorporate broadband as part of the highway infrastructure planning process. It is intended that this planning exercise be utilized by other regions of the state in promoting broadband.</p> <p>Cochise County is the fiscal agent for the four county southeastern region of Arizona that also includes Graham, Greenlee and Santa Cruz Counties. Community Data Sets have been prepared for 16 communities within the four counties. A broadband presentation was made to Arizona County managers in partnership with USDA. An existing transportation planning program is now incorporating broadband planning in its activities in SEAGO.</p> <p>As of this writing, the Western Arizona Council of Governments (WACOG) has completed its first funding round activities that utilizes its 501C3 organization WACA as the fiscal agent. Notably, the region created a broadband grant guide that can be utilized by all four rural regions of Arizona, leveraging federal dollars in similar fashion to the transportation broadband planning activities in the CAG region, noted above.</p> <p>The WACOG Broadband Steering Committee was formed with representatives from regional economic development, educational technology, transportation, government IT, healthcare, and public safety stakeholders. It held two Committee meetings via teleconference and published meeting minutes. A broadband web page is on the WACOG site http://www.wacog.com/wacog-broadband-steering.html to communicate Broadband Steering Committee background and progress as well as foster community interest in related activities.</p> <p>Ten community snapshot spreadsheets were completed for WACOG population centers which were provided to the</p>

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				<p>WACOG Broadband Steering Committee and mounted on the Arizona Broadband Map.</p> <p>With these agreements, we have substantially completed our goal of equal distribution of round one LRP funds across the four rural COG regions.</p>
Mapping Task				
3.2	Update and Deliver Broadband and Community Anchor Databases.	Ongoing	Current	<p>We continue to track Broadband services by Community Anchor Institutions in the State and the actual speeds and costs of their Broadband services. For Arizona we have expanded the definition of CAI to include a significant number of commercial institutions which either have a significant broadband demand, or provide Wi-Fi or other internet access to the public.</p>
3.3	Update the Arizona Broadband Map (including community economic and census data for purposes of community broadband planning).	Ongoing	Current	<p>We are continuously updating the Arizona Map with additional actual measured Broadband speed performance data for both fixed location services and mobile services.</p> <p>Our Arizona specific speed test functionality is fully operational along with a detailed voluntary survey. To date (July 15) a total of <u>7,079</u> speed tests have been run (this includes some repeated speed tests conducted at the time each survey was taken).</p> <p>We have partnered with the Arizona State Lottery and the AZ Department of Education to assist in expanding the scope and reach of the Speed test across the State. A link to the AZ Speed Test has been posted on the Lottery Home Page allowing for easy recognition. As of this reporting (July 18) there have been approximately <u>2,629</u> speed tests run as a result of the Lottery webpage collaboration (including some test runs and duplicates).</p> <p>We continue to improve on the development of a standalone planning-specific version of our State Broadband Map called the “Community Broadband Planning Map Tools”. These tools can be found on our Broadband Portal http://broadbandmap.az.gov/CommunityPlanningMap/ These tools are freely available to the general public and are proving most useful for planners, economic development organizations, and others. These tools continue to be updated with valuable datasets including demographics, economics, statistics, middle-mile route maps from selected providers, and many other functions which will be used by a wide array of planners, developers, and public/private stakeholders in efforts to determine factual representations of actual community specific circumstances.</p> <p>Video step-by-step tutorials to be used as training tools for how users can analyze any planning scenario are available here: http://www.youtube.com/user/ArizonaBroadband</p>

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3.4	Maintain the Hardware, Software, Communications and Data Infrastructure to Support Processing and Delivery of the Arizona Broadband Services and Community Anchor Databases and the Operations of the Arizona Broadband Map.	Ongoing	Current	We continue to keep the Broadband Map servers and software working at a high level of reliability. As reported (Q4 2012) as a result of our expanded Broadband Map, State Specific Speed Test, and Website functionality, we have improved upon and upgraded certain database and server processes, including: (1) Creation of a survey database, (2) Creation of code to match Ookla Speed Test Results with Survey Results, (3) Re-direction of the DNS, (4) Creation of a survey using Lime Survey associated with a SQL database on the AZDOA/ASET webserver.
3.5	ASET Y4 Phase 3 Project Management.	Ongoing	Current	We continue to manage the overall Mapping, Capacity Building, Local Planning, and Addressing and Technical Assistance programs for effective results.
Addressing Tasks				
3.6	Addressing Initiative tasks.	Ongoing	Current as of Q2	<p>The Arizona Broadband (AZBB) Mapping Project, through the AZBB Address Project, is obtaining existing address and road network data. By helping to accurately develop new address and road network data, this information will be used to improve the accuracy of our overall Broadband mapping records.</p> <p>As previously reported a contractor was hired to provide GIS services for developing methods for the use of improved address data for the AZ Broadband Mapping project. This contractor assessed existing address data and helped develop contract requirements to assure contracts for newly developed 9-1-1 address data can be used to better identify levels of broadband services available at the street address level throughout the state. Currently, a 9-1-1 contractor has been selected and is developing data for Navajo and Apache counties and another contractor was selected and work is underway to develop 9-1-1 data for La Paz County.</p> <p>In Arizona, TIGER files and commercially available data sets are accurate within major urban areas, but often lack spatial accuracy, current road segments, or address attributes in many of the rural parts of the state. While the quality of data received from the providers can be problematic, the address data available to perform address matching also creates a high rate of “no matches” when used for geocoding purposes. To reduce this critical problem, we are developing accurate and current road networks, address ranges, and (as possible) address point locations for Arizona’s 15 counties.</p> <p>We continue working to assure that street centerlines and address data, for the three counties that still need this data, are developed to meet our state 9-1-1 GIS standards. This standard anticipates NG911 and has additional attributes which support AZ Broadband Mapping geocoding activities. A study is continuing to assess the quality of existing county address data and determine the most cost effective methodology to convert and standardize existing county address databases for all county addresses. To date, statewide, geocodable street</p>

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				<p>network and address schemas have been developed, and data has been collected, processed and assembled from local 9-1-1 sources. The appended statewide road network has been evaluated for geocoding rates and accuracy. This is the first time such a locally-based network has been assembled in Arizona and it was used in the Spring 2013 AZBB data submittal process. It will continue to be analyzed and improved and the improved version will be used for the AZBB Fall 2013 submittal process.</p> <p>The address level granularity of this improved database will also allow more accurate mapping of speed test/survey results for the AZ map and perhaps at some point for an enhanced national map.</p> <p>The insights gained into multi-agency coordination, collection, pre-processing, appending and quality control will be used to further develop and refine a sustainable workflow for maintaining statewide geocodable street network and address point files. We are developing agreements with counties and local government to obtain maintained address and road network data on an ongoing basis. Due to the current drought and wild land fire conditions, we are in the process of asking all Arizona counties for any parcel, address (ranges or points) data and road centerlines that they have in GIS format. We will submit that data to the National Fire Center, but also retain a copy for the Arizona Geospatial Clearinghouse (AZGEO) for using on the Arizona Broadband Mapping and Address Project and other emergency response applications.</p> <p>Earlier work has shown that geocoding success rates increase when available address data is supplemented with county address data for Broadband mapping purposes. It is anticipated that the geocoding 'hit' rate will continue to increase as counties partner with the state and together we participate in improving Arizona street centerline and address data.</p> <p>In addition, we are working with the Arizona Department of Transportation (ADOT) to facilitate the development of all public roads data necessary to meet the requirements of FHWA's MAP21 program. We have provided ADOT with a Scope of Work which was approved by the Federal Highway Administration (FHWA). Our State Cartographer's Office (project team member) has signed an agreement with ADOT to partner on the development and maintenance of road network data which meets FHWA, Broadband mapping, 9-1-1 and MAP-21 requirements. As part of the agreement with ADOT, and in working with our 9-1-1 community, we have begun dialogues with the Bureau of Indian Affairs (BIA) State Office to obtain road and address data BIA has on file. In addition, while attending the National Geospatial Advisory (NGAC) meeting in Washington, DC, the State Cartographer met with the Department of Interior (DOI) Geographic Information Officer (GIO) regarding the importance of obtaining BIA roads data.</p>

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				<p>The DOI GIO said he would look into it and facilitate obtaining the data. We will be in future communication with him on this effort. These efforts will provide more areas containing accurate road centerlines and facilitate business requirements to continuously improve and provide annual updates of road network and address data for the Broadband project on an ongoing basis.</p> <p>The AZBB Address Project continues to repurpose an existing server to assist rural counties in hosting their address and road network data. This new secure server will allow counties, to contribute and access street centerline and address data as a backup for their own purposes and for use by the AZBB Mapping Project. The project collects existing street centerline and address data from county 9-1-1 and GIS offices on a bi-annual basis. New agreements with counties and tribal governments will improve the quality of this data over time as participation expands. This repurposed server is being developed as an Arizona Geospatial Clearinghouse (AZGEO) which will act as a repository for geospatial (address ranges, points, road networks, etc.) data to support the activities of this project. The agreement with ADOT will provide additional funding for AZGEO development. The project will be seeking long-term sources of funding to maintain AZGEO in the future. An AZGEO implementation plan is currently being developed and will include governance and budget proposals.</p> <p>Street centerline and address data developed for the AZBB Mapping Project will also be made available to state and county agencies to locate and geocode address data to assist state, county and municipal first responders and for any other approved purposes such as FirstNet planning.</p>