

North Bay/North Coast Broadband Consortium

Work Plan: Year 2

**4th Quarter Report
to the
CASF**

April 1, 2016 - June 30, 2016

Submitted July 5, 2016

I. INTRODUCTION

The vision of the **NBNCBC** is to have the persistent digital divide in Marin, Mendocino, Napa, and Sonoma counties eliminated.

The mission of the **NBNCBC** is to:

- 1) Develop a strategic broadband plan for each county based on “last mile” community needs, and integrate the county plans into a regional plan.
- 2) Determine current actual broadband access and adoption rates throughout the region.
- 3) Assess and aggregate unmet demand throughout the region, based on a county’s ground-truth data.
- 4) Identify potential funding sources to improve broadband deployment and adoption rates throughout the region.
- 5) Encourage broadband service providers to use identified funding sources to improve broadband deployment and adoption rates throughout the region.
- 6) Work with broadband service providers to develop a long-term strategic plan for keeping broadband deployment and adoption standard, or above, throughout the region.

The overarching goals for the Year 2 Work Plan are:

- to complete the development of community-based “last mile” plans for communities in each county starting with the unserved and underserved communities;
- compile these community plans into a comprehensive countywide broadband plan for each county;
- integrate these county plans into an overall North Bay-North Coast Regional Broadband Plan;
- set the stage to pursue implementation of projects to meet the priority demands in each county and the region; identify potential deployment funding sources;
- work with service providers to make use of funding sources to deploy broadband; and,
- develop and implement meaningful adoption programs.

There are four measurable deliverables in the Year 2 Work Plan.

Deliverable #1 Produce an annual progress report covering: 1) community involvement in the consortium’s activities (*Activity 1*); 2) plans of the major service entities (*Activity 2.2*); and 3) progress of interactions with telecommunications providers (*Activity 2.3*).

Deliverable #2 Produce a progress report that includes: 1) a detailed design for a countywide infrastructure plan for each county (*Activity 3.1*); 2) a synopsis of each “last mile” project plan developed for communities in each county (*Activity 3.2*); 3) status of securing funding for these projects (*Activity 3.3*); 4) status of projects that have been launched (*Activity 3.4*); and, 5) a conceptual design plan for the Regional infrastructure and securing funding (*Activities 4.1*).

Deliverable #3 Produce a report on the progress of an implementation of adoption programs in each county (*Activity 5*).

Deliverable #4 Produce a report on the overall performance of the consortium (**Activity 6**).

II. SUMMARY OF THE 3rd QUARTER

There are six major activities in carrying out this two-year effort. Within each activity, there are several tasks to be executed.

During this third quarter the primary work of each of the counties has been focused on **Activities 3.2 thru 3.4** and **NBNCBC**, as the consortium, has been focused on **Activity 4.1** and **Activity 6.0**. At the same time, the counties continue to: 1) be involved the community leadership and maintain community commitment, **Activity 1**; and, 2) consult and involve major community services entities, **Activity 2.2** and 3) work with telecommunications providers, **Activity 2.3**. Counties continue work with community groups involved in carrying out adoption programs, **Activity 5.1**.

NBNCBC measures its performance against these tasks and deliverables in the **Year 2 Work Plan** on a quarterly basis using the Chart 2.2.

Chart 2.2 FY Year 2 Performance Measures: Outcome Metrics

DELIVERABLES	Projected Completion Date	1 st Qtr % Achieved	2Qtr % Achieved	3Qtr % Achieved	4Qth % Achieved
Deliverable #1. Annual Report on <i>Activity 1, Activity 2.1, Activity 2.2, and Activity 2.3</i>	6-30-16	100%	100%	100%	100%
Deliverable #2. A Progress Report on <i>Activity 3.1, Activity 3.2, Activity 3.3, Activity 3.4, and Activity 4.1.</i>	6-30-16	25%	75%	85%	100%
Deliverable #3. Report on Implementation of adoption programs <i>Activity 5</i>	6-30-16	25%	75%	85%	100%
Deliverable #4. Overall evaluation of the consortium's performance. <i>Activity 6</i>	6-30-16	0%	0%	0%	100%

It should be noted that Marin County has taken the **NBNCBC Year 2 Work Plan and Deliverables** as a guide and developed its own specific county- based Year 2 Work Plan to reflect its needs and priorities, but remain consistent with the overall **NBNCBC Year 2 Work Plan**. The other three counties are following the **NBNCBC Year 2 Work Plan**.

The following provides details on the tasks and outcomes achieved by **NBNCBC**, as a whole, and by each county this quarter.

1. Activity #1: ENSURE COMMUNITY INVOLVEMENT---Deliverable #1

1.1. Engage Community Leadership

- 1.1.1. Involve County Supervisors;
- 1.1.2. Involve cities, towns, census designated places, and tribal communities;
- 1.1.3. Involve school, library, health care, public safety and government agency leaders;
- 1.1.4. Involve countywide advisory groups;
- 1.1.5. Involve community and business groups; and,
- 1.1.6. Inform the community media (newspaper, radio, TV etc).

1.2. Maintain Community Commitment throughout the Life of the Project

- 1.2.1. Conduct annual briefings of the county supervisors;
- 1.2.2. Hold quarterly meetings of the Oversight Committee;
- 1.2.3. Meet regularly with countywide advisory groups;
- 1.2.4. Meet “in-person and hold “open” conference calls with interested groups in each of the counties to discuss and seek input on specific issues and opportunities;
- 1.2.5. Maintain a web site (Being maintained on the BAMC web site);
- 1.2.6. Publish an electronic newsletter semi-annually;
- 1.2.7. Issue special reports, as appropriate;
- 1.2.8. Issue proactive news releases, as appropriate; and,
- 1.2.9. Form ad hoc task forces, as needed.

NBNCBC Consortium. For the most part, **NBNCBC** works through the county teams to engage community leadership and maintain community commitment to broadband needs in their counties. The county reports below provide updates to those activities.

Through the County Managers **NBNCBC** keeps the region’s Congressman, State Senators and State Representatives informed of the consortium’s activities. Representatives of these officials are invited to attend the quarterly meetings of the **NBNCBC** Oversight Committee.

The third quarterly meeting of the **NBNCBC** Oversight Committee was held on Thursday April 28, 2016, via conference call. In addition to the members of the Oversight Committee and the Management Team in attendance, Alice Glasner the representative and liaison to the **NBNCBC**, was present for part of the meeting. Scott Rasmussen and Jenny Callaway from Congressman Huffman’s Office attended. The agenda and notes of the meeting are posted on the BAMC web site.

The fourth quarter meeting of the **NBNCBC** Oversight Committee will be held on Friday July 29, 2016. The second semi-annual newsletter will be issued by the end of July.

Marin County. The Marin Broadband Task Force (MBTF) has continued to work with Community groups in the field, and with various agencies of the County of Marin to develop Telecommunications infrastructure for the under- and un-served communities of West Marin. There was considerable interaction this quarter with the Community of Bolinas regarding the lack of broadband in their community.

At the request of Marin County Supervisor Connolly, Marin Broadband Task force (MBTF) developed a status report for the Marin Board of Supervisors meeting on April 5, 2016 to supplement the Agenda item regarding the renewal of a

Professional Services Contract to support the work of the Marin Broadband Task Force's (MBTF) broadband work.

MBTF worked with West Marin residents to schedule a trip to Sacramento on April 20, 2016 for the Assembly Committee hearing on AB1758.

MBTF also developed a briefing package for Supervisor Steve Kinsey on April 25th assessing a way forward for broadband development in West Marin's Priority Areas following the withdrawal of AB1758. This was also part of the preparation for the quarterly NBNCBC April Oversight Committee Conference call.

Updates regarding the work of MBTF were provided at Board meetings of the Marin Telecommunications Agency (MTA). MTA is a Joint powers Agency comprised of the County of Marin and nine cities in Marin County. Its Board is comprised of a member of the Marin Board of Supervisors and city council members from each of the cities. MTA sent letters of support on behalf of the Marin Communities to State Legislators for key State of California broadband legislation.

A news article was published in the Point Reyes Light regarding the broadband needs and efforts in West Marin including the recent project submission for CASF funding.

MBTF worked with our District Congressman regarding possible use of relevant language in current authorizing legislation for a Federal Government entity.

Mendocino County. Mendocino County has completed all work in Activity 1, and have kept the county fully engaged in broadband issues. The county CEO and NBNCBC Oversight member supervisor receives a weekly Friday update on broadband activities for that week, and an end-of-month report as well. Community engagement has included an Alliance Public Outreach meeting, a presentation at a local Rotary Club, and scheduled meetings with various groups including the leaders from the communities of Road 409, Albion, Rancho Navarro, and Sherwood Road. We participated in a joint Mendocino-Sonoma collaborative meeting that included Cenic and the California Telehealth network, and in which the Mendocino Librarian, IT staff from our County Office of Education, and site director/staff from Mendocino College attended. We have also held special meetings for the business community in both Fort Bragg and Ukiah (more below under activity 2.1). There have been several articles published in county newspapers about our activities this quarter.

We have initiated a county-wide "Broadband Working Group" to develop county broadband goals and strategies which we intend to have adopted by our county Board of Supervisors, and to eventually update our county broadband plan. We have received county approval for the formation of this group, developed a participant list with input from the county CEO, and are currently enlisting participant commitments.

The Alliance has been involved in streamline permitting processes for small-scale broadband projects since 2012, and have brought in participation by WISPs. In May the county Planning Commission approved the coastal process and recommended it for adoption by the Board of Supervisors. This process is similar to the inland process which was completed and adopted last year.

The NBNBC consortium maintains their web presence as part of the Alliance website, and we have been working to improve the overall Alliance site. We now have a “consumer education” as a main menu on it’s own, with more content uploaded including more provider data.

Napa County. No major activity this quarter.

Sonoma County. Access Broadband Sonoma (ASB) continues to meet with its oversight contact on a regular basis to review current progress and has had two bi-monthly general meetings with members and guests during this quarter. ASB management has engaged regularly with Joy Road Connect Committee members and a potential provider regarding progress on their CASF application. All ASB meetings are posted on the county website, comply with the Brown Act, are open and available for participation via teleconference. Sonic.com and Comcast representatives as well as state and federal legislative district directors continue to attend and actively participate in each meeting. ASB Co-Chair Nicholls meets regularly with Assemblyman Wood and Senator McGuire in their Sacramento offices consulting and lobbying on pending broadband legislation. Nicholls also attended several Assembly Utility Committee meetings and testified on record for specific bills. Co-Chair Sharpe has focused on county inter-departmental communication and in developing many draft responses for the county CEO on legislative matters. He also served on a county team exploring the feasibility of leasing county owned conduit to a provider. Sharpe is the key contact with the County’s contracted lobbyist regarding broadband matters.

2. Activity #2: ASSESS, DOCUMENT AND MONITOR THE UNMET BROADBAND NEEDS THROUGHOUT EACH COUNTY

2.1. Assess the Broadband Demands and Needs of all the Communities throughout each County

- 2.1.1. Encourage citizens in unserved and underserved communities, as reported by CPUC reports, to submit ground truth tests, using the CPUC processes; and,
- 2.1.2. Engage the CPUC to correct CPUC Databases and maps based on these public ground truth test results.

2.2. Consult and Involve Major Service Entities in each County—

Deliverable #1

- 2.2.1. Continue to work with the County Office of Education (COE) to understand its progress in providing the school districts and schools access to broadband connections back to the COE;
- 2.2.2. Continue to work with the County Library (LIBRARY) to understand its progress in providing the branch libraries access to broadband connections back to the County Library and through the Library to other libraries in the region and statewide;
- 2.2.3. Continue to work with the major County Public Safety Answering Point (PSAP), under California’s Statewide Interoperability plan, to understand its progress.
- 2.2.4. Continue to work with all the health care facilities in the county to understand their progress in implementing their long range broadband plans;

- 2.2.5. Continue to work with the County and municipal government IT organizations to understand the progress they are making in meeting their broadband needs and plans;
- 2.2.6. Continue to work with incorporated city councils, community services districts and other government entities to ensure their broadband needs are being incorporated in community and county plans; and,
- 2.2.7. Produce a written document that reports the progress of these special services entities in achieving their broadband needs and plans.

This activity is implemented by each of the county teams. The following highlights their actions this past quarter.

Marin County. Work continued with the County and City libraries regarding upgrading their Internet access to much higher capacity to meet increasing community demand. The libraries have public computers and Wi-Fi that are heavily used by the public in each community.

Mendocino County. Determining broadband availability, speeds, and needs in Mendocino County constitutes ongoing work. As per Activity 1, we have met with 3 specific communities this month for updates and planning purposes, and we also held two special topic meetings for the business community of both Fort Bragg and Ukiah to assess whether their broadband needs are being met. Both of these meetings were well attended, valuable information shared and documented, (including surveys collected), and providers engaged in the conversation and brainstorming of possible solutions. A “Ukiah Fiber Now” idea was started at one meeting, and the beginnings of a working group assembled. A logo has even been proposed. Please see that newspaper article on the Fort Bragg meeting at the end of this report.

The Alliance has also been working with Frontier Communications to access tribal needs, and has organized a tour (in addition to the meeting above) of the tribal areas of Covelo, Laytonville and Sherwood Road, both areas in the new Frontier exchanges. This all-day tour is planned for July 13th.

Several months ago, Mendocino County petitioned the CPUC for party status to the Rural Call Completion proceeding, due to concerns about dial-tone access and how it relates to 911 services. In April that party status was granted, and in June NBNCBC management team attended a CPUC hearing in San Francisco to participate in a panel discussion on how outages have impacted the county, and specifically public safety, in the past 2 years. In other legislative efforts aimed at improving data on broadband, in April the NBNCBC team attended a hearing in Sacramento on SB 1250 (911 Emergency Reliability Act) that would change reporting thresholds for rural areas.

Napa County. No activity this quarter.

Sonoma County. Met with SCOE’s Director of Career Technical Education to coordinate student involvement in the research, development, printing and distribution of a County Broadband Resource brochure. ASB will work with the students each step of the process and act as an information resource as needed. ASB has updated its website to include timely news articles related to broadband for public review. The Sonoma Mendocino Economic Development District has completed its initial economic issues survey based on results submitted by over 350

respondents, has conducted outreach meetings in Santa Rosa and Ukiah and board members will review the first draft of its Comprehensive Economic Development Strategy (CEDS) in mid-July which when approved will be submitted to the Economic Development Administration for review. All public library branches are now connected via e-rate leased circuits and have computers available to the public. Public Health Clinics within Sonoma County are now connected via California Telehealth Network to the CENIC 10 gig. High speed fiber network. Incorporated cities within Sonoma County and the county have dedicated access to the SMART rail fiber network which will interconnect to the 200 Paul Street fiber hotel in San Francisco. (ASB encouraged SMART over 4 years ago during the rail system planning stages to include conduit for broadband use, something SMART had not considered in their original planning.)

2.3. Involve and Work with Telecommunications Providers---

Deliverable #1

- 2.3.1. Continue working with current major and local telecommunications providers, wireless ISPs, and cellular providers in the county to learn of changes to their offerings and progress against their plans to deploy broadband to the communities throughout each of the four counties;
- 2.3.2. Ensure all the providers have information on the CPUC reporting requirements and procedures and encourage them to accurately report their data to the CPUC; and
- 2.3.3. Produce a report that documents the results of these interactions with the providers.

NBNCBC Consortium. At the outset of this fourth quarter we requested and received permission from CPUC/CASF to shift \$10,000 in grant funds from county allocations to NBNCBC to hire CSU Chico GIC staff -Cathy Emerson and Tyler Boyle-- to help us meet with the groups that we have worked with in Activity #2 to assess and better understand their current status and future plans and needs for broadband and how we might all work together going forward. The project was called the **Sonoma-Mendocino County Assessment of the Current Status of and the Future Plans and Needs for Broadband Access.**

On behalf of Sonoma & Mendocino counties, twelve (12) meetings with Internet Service Providers (ISPs), Wireless Internet Service Providers (WISPs), and community members were scheduled and convened from June 7 to June 30th, 2016. All parties contacted and invited to participate in these meetings who could attend responded favorably and participated. Given the depth and breadth of interest and relevance of county education and rural health facilities' networks, reps from Marin & Napa Counties attended the meeting with CENIC and CTN. We attempted to reach public safety representatives, but were unable to confirm attendance, either too short notice (on our part, for their schedules), or too short staffed (on their part). The project was successfully completed. A final report is being finalized and will be posted on the NBNVBC web site this month.

Marin County. During the fourth quarter, MBTF continued to discuss with providers the potential for dark fiber in Marin County. Meetings also included discussion of opportunities for potential Public - Private Partnerships (PPP) in Marin County, to possibly establish:

- E-Rate or Healthcare Connect (rural telehealth) Projects
- Federal / Defense contracts initiatives supported by Congressman Huffman
- Marin biotech initiative

- Marin commercial real estate initiative

Mendocino County. This quarter Mendocino has worked extensively with providers, especially small local WISPs. Meetings between SeaKay and PG&E, and other entities (non-profits, granges) have been researched, arranged, and attended. We have had formal meetings with larger providers of Comcast, Frontier and Sonic, the cable provider Cal-Neva, and with the WISPs Digital Path, De Novo, and Valley Internet.

Although the NBNBCB consortium has been trying to meet with AT&T, AT&T has not yet agreed to such a meeting. In addition, Senator McGuire arranged a meeting between AT&T and county CEOs and supervisors on May 5th to discuss upgrades in the network. Mendocino County CEO Carmel Angelo could not attend, and she asked NBNBCB deputy-manager Trish Steel to attend in her place. Unfortunately, at the time of the meeting AT&T reported that they would not share any information if Trish remained in the meeting, and so she left. It appears from this action that AT&T is actively working to withhold information from the consortium.

Napa County. After nearly a year of discussion Napa had received a proposal from Valley Internet for them to provide county 20 Mbps download broadband service into the three Migrant Farmworker Housing Centers; that would give adequate broadband services to the migrant workers who reside at the centers and more importantly enable the County Library to offer a quality adoption program to these migrant workers. As a result, the Napa Team submitted to CASF a project plans and a request to use the county's unspent CASF grant funds to implement this three-year project. As a result of several exchanges with CASF Napa revised and resubmitted the project plan as a two-year program. Upon CASF legal review it was determined the project could not be funded by the use of these CASF grant funds.

Sonoma County. During the 4th Quarter, Sonoma and Mendocino counties engaged a consultant to facilitate meetings with Comcast, Frontier, Sonic, Valley Internet, Digital Path, CENIC and California Telehealth. The meetings discussed county needs, existing backbone infrastructure routes, last mile needs, conceptual design for optimum county backbone routes. We asked the providers to state their mission and services offered, capacities available, whether a 4-county regional backbone would assist in their needs and how we can collaborate to optimize benefits from their respective organizations in closing the digital divide. Importantly we sought out what could be the challenges and obstacles to collaboration. A final report is in the draft process covering each of our meetings.

3. Activity #3: INCORPORATE THESE BROADBAND NEEDS INTO COUNTYWIDE AND COMMUNITY-BASED PLANS

3.1. Develop a Countywide Infrastructure Plan based on the Assessed Needs-- **Deliverable #2**

- 3.1.1. Secure the endorsement of the county and community leaders to the conceptual design developed in the last quarter of Year 1.
- 3.1.2. Work with committed providers to create a detailed design;
- 3.1.3. Assess the gaps in the current infrastructure;
- 3.1.4. Develop cost estimates to implement this detailed design;

- 3.1.5. Review the detailed design and cost estimates with county and community leaders and participating telecommunications providers;
- 3.1.6. Modify the detailed design and costs; and,
- 3.1.7. Produce and share the detailed design for the county.

Marin County. In the fourth quarter, MBTF’s strategic development partner continued to examine possible routes for backhaul / middle mile optical facilities from Nicasio to the underserved communities of West Marin.

The Nicasio Broadband proposed network is configured to create the central node which will be used to tie backhaul / middle mile optical cable routes supporting new broadband networks to be deployed along the West Marin coast back to the metro fiber ring connecting Nicasio to regional Internet exchange points (IXPs) in the San Francisco Bay Area.

MBTF has previously reported this planning in other quarters. Similarly, we referenced in this planning our application for CASF-Consortia Account funding for an additional two (2) years. Inyo Networks, Inc. referenced the same issue in its Nicasio Broadband application to CASF (November 2015).

In this manner, Marin County and its community, provider, and strategic partner (Inyo Networks, Inc.) remain intent on developing, and continuing to present to CPUC-CASF a comprehensive and integrated plan for multiple access / last mile networks in West Marin, and the necessary backhaul / middle mile networks required.

Mendocino County. The county has developed a county-wide conceptual design map, which we intend to refine through the activity of the Broadband Working Group. We are also working with specific providers and communities to organize communities so that some type of model can be developed that would allow for a broadband network to be developed and built.

Napa County. Napa elected not to develop a conceptual design given the fact that the CPUC maps and data showed 98 percent served. They elected to concentrate on areas they believed were underserved.

Sonoma County. Access Broadband Sonoma (ASB) has presented conceptual maps to county CAO, Oversight Committee Member, ISD Manager and other key county employees. We have reviewed our conceptual maps with each of the providers we met with in Deliverable #1. Revised conceptual maps have been developed as a result of discussions with providers, however costs and detailed design have not been completed. (State Senator McGuire is coordinating a meeting with ATT which will be held after the close of the quarter.) Sonoma County has discontinued its negotiation with a potential provider for the WiTel conduit asset. The asset is not contiguous and agreement could not be reached.

3.2. Assist Communities to Develop and Launch Projects— Deliverable #2

- 3.2.1. Continue to assist interested communities to develop a community “last mile” project based on the broadband needs of that specific community; and,
- 3.2.2. Identify a committed provider to undertake the project plan for each community.

Marin County. MBTF worked with a West Marin Community and a WISP with regard to adding wireless adjuncts to a recently submitted CASF project area in order to possibly expand the project benefits to a broader community.

Mendocino County. As indicated above, we are presently working with communities on developing projects. We were not able to develop CASF grant applications for various reasons, but because the need exists we continue to work on behalf of these communities:

- Road 409
- Westport
- Albion
- Sherwood Road

The City of Willits is presently engaged in a “Main Street” project, to which I submitted a letter to the the Public Works director and city manager suggesting that for the project they discuss the potential for installing empty conduit in the 3 miles of roadway which (I understand) will be “opened” for this project, and could create future benefit. I also sent them information about other towns that have done this, and info about various models of PPPs. I also arranged to have an engineer call the city planner to discuss logistics of such an option, and even offered for the Alliance to pay for the engineer’s time on the call. Unfortunately, I do not believe that the city is receptive to these ideas as I have not heard anything back.

Napa County. No activity this quarter.

Sonoma County. As stated at the close of the 3rd Quarter, Race Communications has filed an application to CPUC for Gigafy Occidental (Joy Road Priority Area) and is awaiting a response. ASB has provided Race with detailed feasibility studies for Dry Creek, Cazadero and Jenner Priority Areas. Initial plans include the prioritization of Dry Creek as the next rollout, pending CPUC’s decision on Gigafy Occidental and availability of grant funding from CASF. Two small rural communities have contacted ASB regarding the potential of broadband connectivity and have been referred to potential providers.

3.3. Develop Time-Action Plan for Implementation

- 3.3.1. Work with committed providers that are ready and able to deploy the needed broadband infrastructure and services to that community;
- 3.3.2. Work with committed providers to pursue securing state, federal, and private funds to launch projects; and,
- 3.3.3. Assist these providers in launching projects in meeting government agency requirements.

Marin County. In the fourth quarter, MBTF’s strategic development partner continued to examine possible routes for backhaul / middle mile optical facilities from Nicasio to the unserved and underserved communities of West Marin.

MBTF performed reviews and research regarding a potential marine horizontal bore for an optical fiber pathway between Bolinas and Stinson Beach in West Marin. The concept was proposed by a prospective cable development partner. Ongoing communications have taken place to further define the project and better understand permitting, and other requirements in order to determine project

feasibility to expand broadband availability to unserved or underserved West Marin communities.

Mendocino County. No specific time-action plans currently as no state or federal funds for projects have been identified as viable options.

Napa County. None at this time.

Sonoma County. As reported at the close of Q3, ASB collaborated closely with Race Communications personnel in preparation for the application to CPUC for the Gigafy Occidental project. Preliminary infrastructure and cost estimates have been developed for Dry Creek Valley however further work on this potential project is on hold pending a CPUC decision on Gigafy Occidental.

3.4. Facilitate and Monitor the Overall implementation of these Community-based Broadband Projects

3.4.1 Facilitate and monitor the implementation of these community broadband projects.

Marin County. Marin Broadband Task Force (MBTF) successfully facilitated the filing of Marin's first application for CASF Infrastructure funding. Inyo Networks, Inc. submitted a CASF Infrastructure grant application on November 12, 2015 for the Nicasio Broadband Project. MBTF coordinated the close cooperation between Inyo and the community-based Nicasio Landowners Association (NLOA). MBTF continues to support this project as it continued to move through the CPUC CASF review process. During this quarter the CPUC Staff published Resolution T-17523 recommending CPUC conditional approval of the project for funding. It is currently scheduled for CPUC consideration for approval at the Commission's July 14, 2016 meeting.

Mendocino County. There has been ongoing work with communities. See 3.3 above.

Sonoma County. Awaiting a CPUC Staff Decision on Gigafy Occidental. The Dry Creek Project is on hold pending CPUC's decision on Occidental. The projects must follow a logical approval sequence in order to be considered and moved forward by a provider.

4. Activity #4: INTEGRATE THE COUNTY INFRASTRUCTURE NEEDS AND PLANS INTO A REGIONAL PLAN OF ACTION---**Deliverable #2**

4.1. Aggregate the Broadband Needs of the Counties into a Regional Needs Statement

- 4.1.1. Update and aggregate the county broadband needs that are regional;
- 4.1.2. Update the an overall regional design;
- 4.1.3. Working with the counties refine regional broadband design;
- 4.1.4. Develop cost estimates to implement the unfilled gaps in this design;
and
- 4.1.5. Produce and share a project plan for a region project.

NBNCBC Consortium. As reported in previous quarterly reported routes in the conceptual designs of countywide backbone infrastructures in Sonoma and

Mendocino counties would become part of a NBNCBC regional backbone infrastructure.

Integral to this effort, NBNCBC identified a major need for a fiber-based middle mile infrastructure along the Route 101 Corridor from the Bay Area to the Oregon border to facilitate economic development in the region and to create a more competitive and cost-effective environment for broadband services to this region.

During this quarter we engaged a consulting engineer to do a preliminary design and cost estimate for two segments along the Route 101 Corridor. The intent is to provide an order of magnitude investment level with sufficient detail regarding the specific routes to develop a realistic and workable plan for providing high-speed digital connectivity between 22 North Bay and North Coast communities. It is based on a field survey conditions assessment, satellite mapping for distances, routing, equipment locating and experience regarding design and cost estimating. Industry standards and current outside plant standard methods were used both to develop the potential design and complete a “budgetary” cost estimate. This Network cost projection includes construction, equipment, capital leases related to equipment installations, detailed engineering, permit and environmental factors. It is based on value-engineering design standards which are intended to lower initial investment. The total capital estimate for segments #3 (39.2 miles) and #4 (219.4 miles) is \$68.1 million.

The final report is being made available on the NBNCBC web site.

5. Activity #5: FOSTER THE IMPLEMENTATION OF ADOPTION AND TRAINING PLANS AND PROGRAMS--- Deliverable #3

5.1. Update Data on Existing Adoption and Training Programs

- 5.1.1. Identify existing programs that might be offered in each county; and,
- 5.1.2. Update the assessed need for adoption programs in each county.

5.2. Develop Implementation Plans for Adoption Programs

- 5.2.1. Work with community-based entities within the county to develop a base level program for the county;
- 5.2.2. Work with these entities to identify funding sources to underwrite to enable them to implement the base level program across the county; and,
- 5.2.3. Work with these community-based entities implement tailored programs, where needed.

Marin County. MBTF has supported the development of a Digital Literacy Program in Marin City which has provided a computer lab with computers and instruction for low income youth in the community. The lab has also been used to for coding classes and classes about computers and their use for youth and seniors.

Mendocino County. The Alliance worked hard on developing a 2-tiered adoption proposal that involved several school districts and the local Community Foundation, and submitted the proposal to private funding (Bechtel Foundation). Unfortunately, this proposal was not funded. We are working on a submission to Cisco for funding, but the prospects are not strong.

However, we have success to report with the CETF/Frontier grant program. We worked with the Laytonville Family Resource Center to facilitate participation in

this program, and on June 28th were informed that they have been awarded the grant. The terms are from July 1, 2016 to June 30, 2018.

We are also working to make adoption more affordable. On May 20th the Alliance hosted a special presentation for the community by the non-profit organization called "Computers for Classrooms" on access to low-cost computers and devices for students, seniors, non-profits, organizations, and low-income residents. We had a good turnout, including a local class (see photo below, and newspaper article).

Napa County. See Activity 2.3.

Sonoma County. Guerneville Senior Center as part of ASB's outreach program partnered with ATT on a tablet training session this quarter. The meeting was filled to capacity and a waiting list has generated the need for a follow up session for those unable to attend the first session. A follow-up survey indicated a need to conduct sessions on smart phone training. Comcast has been invited by school districts through discussions with Russian River Area Resource Advocates and ASB in West Sonoma County to attend school board meetings and present their Internet Essentials Program. Sonoma County has 46 independent school districts, many of which are in rural West County.

Activity #6: EVALUATE THE PERFORMANCE OF THE CONSORTIUM

Deliverable #4

NBNCBC Consortium. During the quarter we conducted a self-evaluation of the performance of the Consortium over the past two years.

Two major themes emerged from this evaluation.

Engagement with Telecommunications Providers was given significant attention both at the consortium level and the county level.

- There was an inability to move forward in any significant way with the large incumbents to work directly to develop and implement service plans for under and un-served areas and the incumbents were mostly unwilling to share their own plans. And in fact, they appear to have little or no interest in serving the unserved areas.
- **But slowly each county found one or more small provider that was willing to begin working with them.** The smaller providers are limited by financial resources leading to slower movement forward and the need to establish an anchor project that will enable development of nearby projects.
- This impacted the ability to complete Activities 2.3 through 4.3. - developing county-wide infrastructure plans and regional action plans

Consortium Involvement was considered valuable by each county team, and led to benefits and progress for their county that would not have been accomplished without NBNCBC.

- **At the county level, the structure of the NBNCBC team led to increase of awareness throughout the county,** sometimes the general population, also in government leadership - moving knowledge of BB issues from just the information technology staff level out to all the leadership, anchor institutions and community organizations. It has led to understanding the needs in the

county and supporting the efforts. Three of the county Boards of Supervisors have made BB development a priority in their legislative lobbying efforts.

- **The expertise they had access to, for both technical and management levels was extremely helpful** and resulted in increasing the knowledge and understanding of issues and how to move forward to more success in improving their own county's bb needs.
- **It opened up networking** within each county, between the consortium counties and beyond into the state to other consortiums and organizations working on telecommunications issues
- **Coming together under one entity greatly improved the impact/clout** that each county felt they would have had on their own.
 - It was used to put **pressure on the incumbents** to communicate better and work with the counties on some levels.
 - Together under NBNCBC the four counties have taken a **lead in the state** for getting the **issues and needs out to the CPUC and state and federal legislators**. The counties' responses to the outages and 911 issues have been a significant factor in some of the legislation that our state senator and assembly person have introduced
- County teams perspective is that If NBNCBC is funded for another two-year grant period, the infrastructure development work can be completed - both planning and implementation.

The final report is being posted on the NBNCBC web site.