



# CALIFORNIA ADVANCED SERVICES FUND



*Regional Consortia Learning Summit  
Tuesday, March 6, 2018*



# Central Coast Broadband Consortium

## Key outcomes of consortium achievements

- Completion of CASF-funded Connected Central Coast middle mile project.
  - Five ISPs using (AT&T, Charter, Cruzio, Redshift, Surfnet); one co-lo (OpticAccess).
- Completion of Pinnacles last mile CASF project; Surfnet Paradise Road in progress, Light Saber project approved.
- Partial completion of Salinas Valley upgrade by Charter (Castroville, Gonzales, Prunedale); completion plausibly on schedule.
- Santa Cruz Fiber operational, City of Santa Cruz moving ahead with muni fiber build.
- City of Watsonville muni dark fiber network and data center operational; second phase expansion under development.
- Muni RFPs and/or fiber builds in Hollister, Salinas, Gonzales.
- Online mapping and broadband infrastructure and service analytical tools online.
- Dig Once, conduit specifications and other broadband development policies developed regionally and evaluated and/or adopted locally *and by Caltrans*.
- Regional forum for electeds and community leaders to raise awareness and encourage participation



# Central Coast Broadband Consortium

## **Best practices achieved**

- Develop widest array possible of funding sources, methods and strategies.
  - CASF is just one of the tools in the kit.
- Engage with and support independent and incumbent ISPs on a neutral, results oriented basis.
  - Leverage regulatory processes when necessary.
- Independent mapping and analysis, directly targeted at regional needs and goals, is essential.
- Identify regional priorities and set goals quantitatively.
- Build policy consensus and pursue policy adoption on a bottom-up basis.



# Central Coast Broadband Consortium

## Challenges faced

- CASF infrastructure grant program is not designed for success.
  - Multi-year review process and perpetual challenge period untenable for private capital investment needs.
    - Las Cumbres project in third year of review.
    - Timelines and uncertainty unattractive to ISPs and unacceptable for regional goals.
    - Focus is on process and compliance, not on results.
    - AB 1665 made a bad situation worse.
      - Middle mile funding problem needs to be solved.
- Incumbents only participate in regional planning and embrace regional goals under duress.
- Broadband needs and goals are a continually shifting target.



# Central Coast Broadband Consortium

## **Outstanding gaps/needs**

- Granular, quantitative goals for regional broadband development must be set independently.
- Regional middle mile infrastructure gaps remain, particularly south Monterey County and north San Benito County.
- Additional funding and capital investment in last mile service need to be further developed.
- Dig once and other local/regional broadband policy incentives need to be better aligned with goals.



# Central Coast Broadband Consortium

## **Future sustainability action plan**

- CCBC has an organisational history going back more than 20 years.
  - Organisational structure and member participation continuously adapts as needed and desired.
- CASF consortia grant funds specific and limited activities and services.
  - Broader consortium activities are independent of grant and are supported by members.
  - Contingency plans for reduction/elimination of CASF consortia grant support.
- Consortium goals and activities are aligned with other regional planning and economic development organisations.



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# Connected Capital Area Broadband Consortium

**2018 CASF Consortia Learning Summit**



**Tammy Cronin**

**March 6, 2018**





# VALLEY VISION OVERVIEW

- Regional civic leadership organization serving Capital Region and beyond
- Manages Connected Area Capital Broadband Consortium
- Other broadband projects: Yolo County AgTech Pilot, School2Home/Neighborhood Transformation Project
- Manages Capital Region Workforce Action Plan for region's 4 workforce development boards and 3 community college districts (8 industry clusters)
- Lead for federally designated manufacturing community consortium
- Manages Cleaner Air Partnership and other initiatives

# closing the digital divide in rural California

## Connected Capital Broadband Consortium

Funded by the CPUC



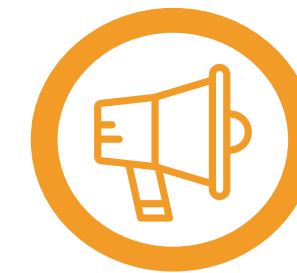
### Collaborates

To identify, plan, and facilitate improved broadband infrastructure across the region's 4 counties.



### Connects

With the other consortia in the state; state and federal agencies; and other sectors to address the digital divide.



### Advocates

For resources and policy changes to accelerate the deployment, accessibility, and adoption of broadband.



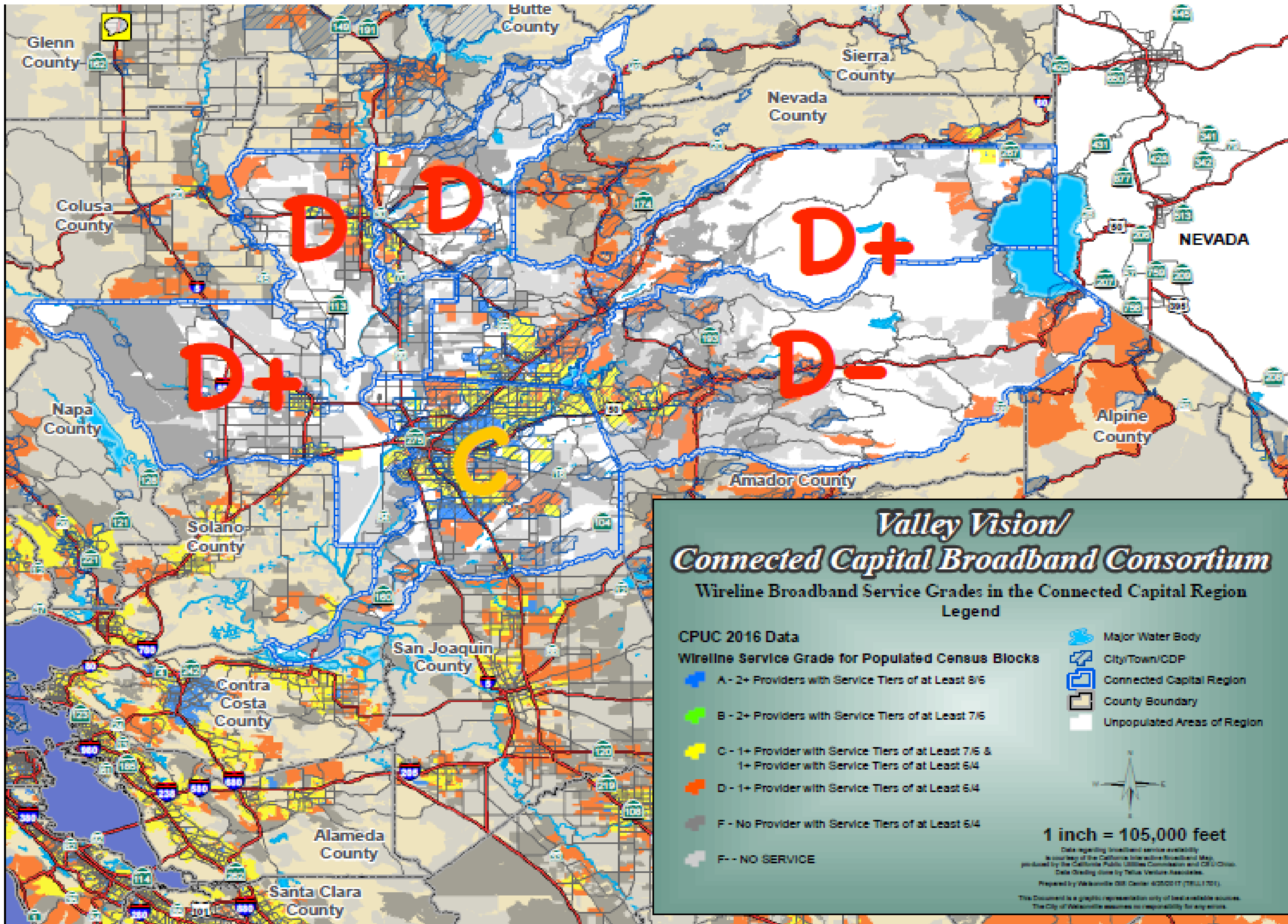
### Infrastructure

To improve infrastructure, expand Telehealth, Agtech and increase digital literacy throughout the all areas of the region.

# Need for Rural Broadband



- Only 43% of State's rural population (many residing in the Central Valley) has same Internet access as urban areas
- More than 90,000 persons are unserved or underserved in CCABC region
- Infrastructure grades are low, **based on CPUC data, 6 Mb/s down, 1.5 Mb/s up compared to federal standard of 25 Mb/s down, 3 Mb/s up**
- Region's rural areas "locked out" of access to critical funding sources; pervasive barriers in filling market gaps by providers
- CASF does not address business and economic development needs



# Need for Rural Broadband

- Yolo Broadband Strategic Plan identified urban and rural broadband gaps, across all business sectors – lack of competition, high prices, unreliable service and speeds
- Food and Ag Cluster generates more than \$7.2 billion in direct economic impact, more than 31,000 jobs, more than 30% of exports (SACOG, 2016)
- UC Davis preeminent, generating innovative ag technologies – can't deploy with broadband
- Central Valley has federal designation of one of 24 manufacturing regions nationally – poor broadband a major infrastructure challenge



# Broadband is Transforming Agriculture: Yolo and Fresno Counties Ag Tech Project



# AgTech Pilot Project

## Purpose/Goals



*Document the need for and benefits of reliable, cost-effective broadband access in rural areas for agriculture*



### **3 Goals**

#1 – Demonstrate the value of Ag Tech to increase on-farm productivity; decrease water & energy usage; & reduce pollution through broadband as enabling technology

#2 – Verify claimed provider performance; increase the availability of broadband infrastructure for ag and rural communities

#3 - Introduce Ag Tech capabilities to Yolo and Fresno County farmers/growers

# AgTech Pilot Project Research Findings



- Availability of bb for ag production/operations has serious implications for future of ag
- Deployment shows 20-30% less water usage, increased crop productivity
- Precision ag data is evolving into “big data” – exponential growth, availability and use of information, including analytics
- Precision Ag Market to reach \$7.8b globally by 2022
- Emerging issues – chronic labor shortage, aging of farmers; food safety. Ag technologies needed to help farmers better manage operations

*Note: Picture credit, copyrighted image AGCO Corporation*



# What's Next

A landscape photograph showing a vast green field in the foreground, leading to a line of trees and hills on the horizon. The sky is a mix of orange, yellow, and blue, indicating a sunset or sunrise. The overall mood is serene and hopeful.

- Regional CCABC meetings with community leaders, stakeholders and partners to identify project priorities and seek innovative infrastructure, funding and partnership solutions
- Work with regional leadership to advance this high policy priority; working with Congressional Delegation, Rural Broadband Caucus and federal agencies
- Build regional leadership and vision for robust, future-ready broadband infrastructure



## **Action Plan Goals**

### Access: Digital Inclusion Solution

Partner with Tech Exchange to provide low-income families with donated, refurbished, free computers, training, tech support and assistance obtaining low cost BB subscriptions

### Adoption: Tech Equity Initiative

Partner with tech education non-profits, tech businesses, agencies to address issues of diversity, inclusion and equity in the tech economy

### Deployment (not funded by CPUC)

Mobilize support for East Bay becoming Gigabit Region

### Mobilization

Organize EBBC Summits to bring hundreds of participants to hear experts and address BB deployment, access and adoption and specific EBBC initiatives

# Accomplishments

## Access

- ❖ Received over 4,300 donated computers, 672 monitors to be refurbished
- ❖ 3,878 families received free computers, training and tech support and 668 signed up for low-cost BB subscriptions
- ❖ Designed SMART NEIGHBORHOODs program to provide tech education programming at rec centers, Boys and Girls Clubs, YMCAs.

## Adoption

- ❖ Tech Equity Initiative launched website, assisted 7 companies with diversity and equity strategies; sponsored Tech Equity Week, held monthly forums
- ❖ Partnered with Urban Strategies to launch Tech Pathways website, a framework for understanding tech careers and information on East Bay training programs
- ❖ Participated in formation of Tech Hire Oakland to train, place and advance 1000 local residents in greater Oakland area in tech careers by end of 2020

## Mobilization

- ❖ First Summit of new grant period was held with close to 100 attendees to address EBBC initiatives in BB deployment, access, and adoption

# Best Practices and Challenges

## Best Practices

- ❖ Partnerships with other organizations and agencies key to increasing impact through collaboration and combining of resources. Partners include public agencies, businesses, non-profits, economic development organizations.
- ❖ Development of Tech Fair model in partnership with local schools and community organizations to maximize impact of Digital Inclusion Solution. Over 70 Tech Fairs held in first year, with 3878 families receiving free computers.

## Challenges

- ❖ Difficulty obtaining funding to continue campaign to promote robust BB infrastructure for economic development and community/public services.
- ❖ Difficulty in persuading local governments of importance of robust BB to promote economic development and community/public services/

# Needs and Future Sustainability Plan

## Outstanding Needs

- ❖ Funding to continue campaign to promote robust BB deployment

## Future Sustainability Action Plan

- ❖ With Tech Exchange, pursue outside funding to continue Digital Inclusion Solution and expand to Solano County
- ❖ Continue partnerships with agencies, non-profits, businesses to leverage needed resources



**ESCORBC**

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*Eastern Sierra Connect Regional  
Broadband Consortium*

## Eastern Sierra Connect Regional Broadband Consortium (ESCRBC)

- \* The past three years have been challenging at best. ESCRBC was without funding for all of 2016. In January of 2017, ESCRBC received grant funding a two year period in the amount of \$126,700
- \* The ESCRBC began a search for new Board members (lost during the non-funded year) and began community outreach efforts in east Kern County.

# Eastern Sierra Connect Regional Broadband Consortium (ESCRBC)

- \* ESCRBC has focused on the lack of reliable, consistent high speed internet service with adequate bandwidth to service our medical and educational institutions within the consortium boundaries.
- \* Educational activities such as digital literacy classes for our seniors and digital marketing classes for our businesses have been very successful in gaining support for our efforts for increased services at an affordable price. We will continue this outreach.



# Eastern Sierra Connect Regional Broadband Consortium (ESCRBC)

- \* ESCRBC continues to reach out to Kern County officials to create policies that will ensure future development including the necessary infrastructure to provide rural communities with the much needed services that reliable, consistent, affordable, high speed internet can bring to underserved areas.
- \* In today's world, economic development is crucial to the survival of our rural communities. This cannot be accomplished without access to a strong, vital internet connection.

# Eastern Sierra Connect Regional Broadband Consortium (ESCRBC)

- \* ESCRBC looks forward to the future. We face many challenges and obstacles along the way. ESCRBC is committed to our goals of increasing internet service to bring reliable and consistent internet capabilities with adequate bandwidth to provide more educational opportunities, business development, great medical services, and increased public safety – in other words, increasing the quality of life for rural areas that deserve to be part of the future.

# Eastern Sierra Connect Regional Broadband Consortium (ESCRBC)



- \* One of the first digital literacy classes at the Senior Center in Lake Isabella. Class size increased as the word spread through the community that this was place to learn how use smartphones, tablets, and laptop computers.



## Eastern Sierra Connect Regional Broadband Consortium (ESCRBC)

Digital Literacy Classes – Businesses  
want more!!!



# Regional Consortia Learning Summit

March 6, 2018  
San Francisco, California

# Key Outcomes for Year One

Action Plan Goals	Accomplishments
ISP Partnerships	<ul style="list-style-type: none"><li>• Developed close partnerships with key ISPs</li><li>• Engage with ATT &amp; advocate for communities</li></ul>
Economic Development	<ul style="list-style-type: none"><li>• Coordinated efforts with Sierra EDD</li><li>• Broadband is #1 priority for CEDS</li></ul>
Community Engagement	<ul style="list-style-type: none"><li>• 18 community engagement events</li><li>• Task force formed in 4 communities</li></ul>
Public Agencies	<ul style="list-style-type: none"><li>• Working with local government planners</li><li>• Partner with UC ANR &amp; 4H for speed tests</li></ul>
Program Administration	<ul style="list-style-type: none"><li>• Developed partnerships with Consortia</li><li>• 1st round of mapping complete</li></ul>

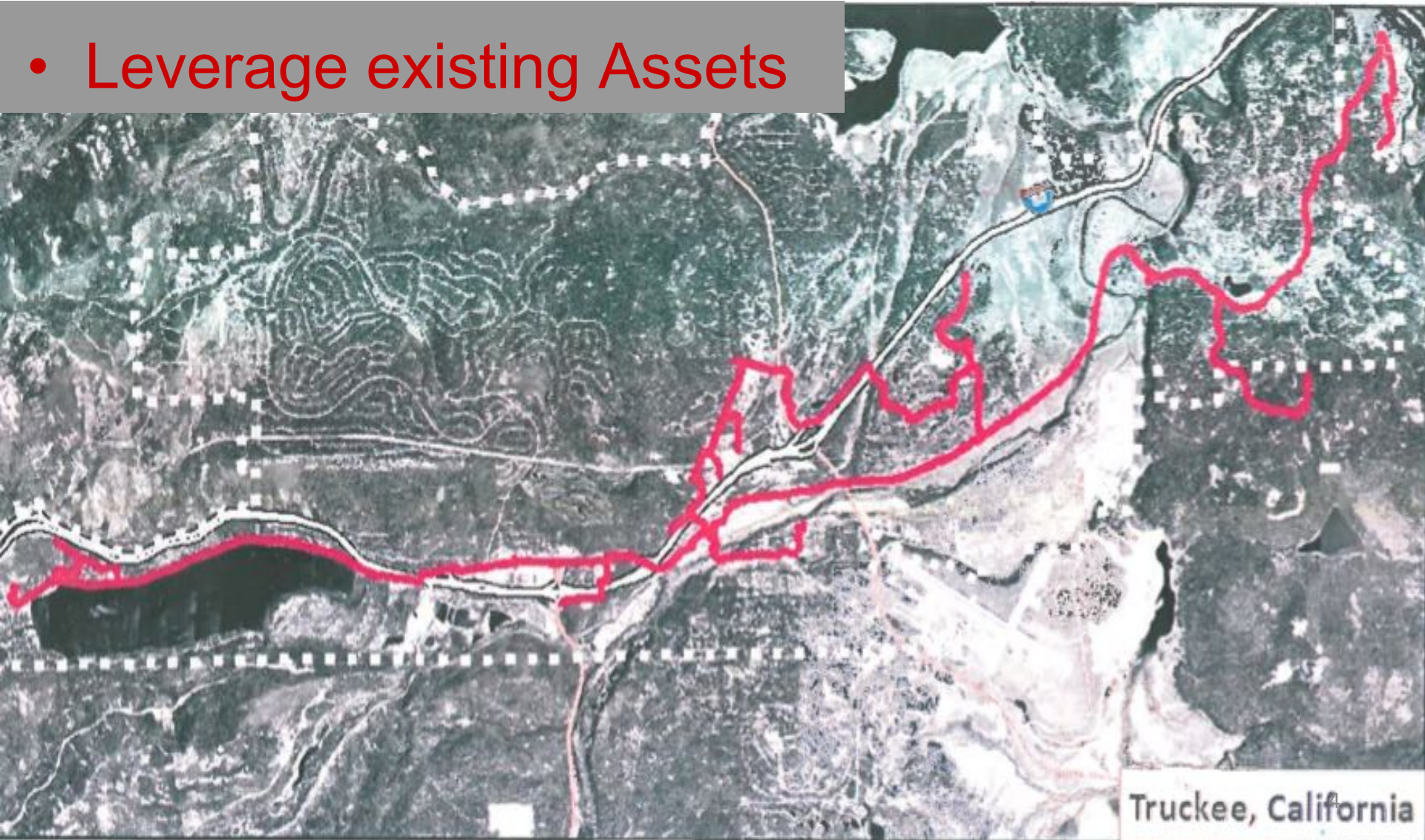
# Best Practices Achieved

## POST ROAD FOUNDATION

CONNECTED, SUSTAINABLE INFRASTRUCTURE FOR THE 21ST CENTURY

# Best Practices Achieved

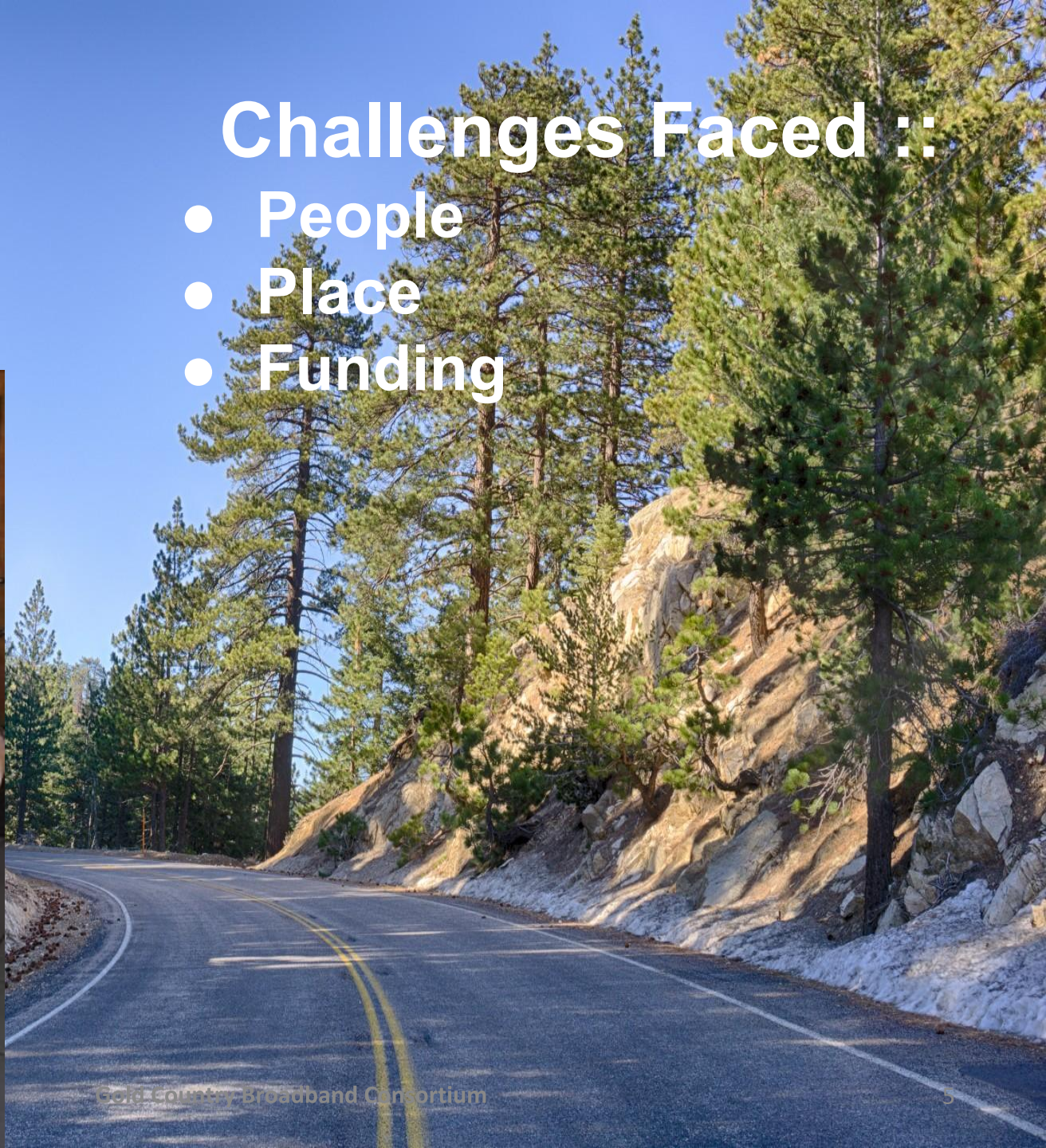
- Leverage existing Assets





# Challenges Faced ::

- People
- Place
- Funding



THE

# INTERNET

## GAP BETWEEN URBAN AND RURAL AMERICA



### ACCESS

[Reduced Access]  
Roughly 63% of rural communities have access to broadband compared to 73% of urban residents.[1]



### SPEEDS

[Significantly Slower]  
39% lacking access to broadband of 25/4 Mbps or higher, compared to 4% for urban areas.[2]



### COST

[2 times more]  
The cost of broadband in rural America is more than 2 times that of urban services.[3]

## Many things are affected

CURRENT STATS (AS OF 2017) ON RURAL INTERNET USE AND HOME SERVICES EFFECTED BY LACK OF BROADBAND



### HEALTH

[Medical Necessity]

Rural communities lack access to Broadband speeds necessary for telehealth, which reduces hospital admissions by 35% and overall length of stay by 59%. [4]



### EDUCATION

[Equal Opportunity]

6.5 million students remain unconnected to internet at school, and 77 percent of those students live in rural areas.[5]



### ECONOMY

[Global Economy]

Small businesses in rural communities have difficulty conducting e-commerce, which can increase sales and creates jobs.[6]



### PUBLIC SAFETY

[Response Times]

Communities without access to real-time data experience 25% higher rate of lost lives, injuries and crime.[7]

## We can do better.

FCC funding, regulations and state funding has helped to reduce the divide, but it's still significant. The FCC is loosening the regulations and big telecom is slowly turning off their old copper lines and migrating to a fiber and wireless network. During this migration process they are canceling internet services in areas where it doesn't pencil for them to maintain it with no indication on when, or if they will be adding new services. The deregulation and lack of accountability is only adding to the number of people without internet.

# Outstanding Gaps/Needs

- Learn from other Consortia Members
- Feasibility Planning for smaller communities
- Continue to build trust in region
- Used wireless equipment

# Future Sustainability Plan

Build the Electronic Silk Road

Leverage Other Funding

- Project management
- OES, education and library funding
- Cap and Trade Funding
- Unlock local government treasury dollars

# CPUC CASF 17 Statewide Regional Broadband Consortia



**Inland Empire  
Regional Broadband Consortium**

Riverside County  
and  
San Bernardino County



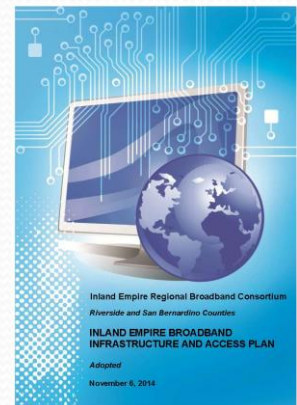
**Inland Empire  
Regional Broadband Consortium**

## **IERBC Accomplishments**

- **5 out of 8 Priority Communities listed in Resolution T-17443 now served**
- **Over \$35 Million in CPUC CASF Funds awarded to Inland Empire Region**
  - Pending: \$4.6 Million CASF Broadband Infrastructure and Public Housing Adoption Grants
- **Inland Empire Broadband Infrastructure and Access Plan (November 2014)**

## **Current Efforts:**

- **Support CASF Grant Applications for Unserved areas in the Inland Empire**
- **Collaborations with Inland Empire Economic Partnership and CETF**
- **Implement Inland Empire Broadband Plan:**
  - Focus on unserved areas
  - Smart Community Programs/Policies
  - General Plan and “Dig-once” Policies
  - County/City Outreach
  - Outreach to City Engineers and Transportation/Planning Agencies
  - Outreach to Planners, IT and Professional Engineering Associations
  - ❖ **Inspirational Goal: “Gigabit Speed” for the Inland Empire**

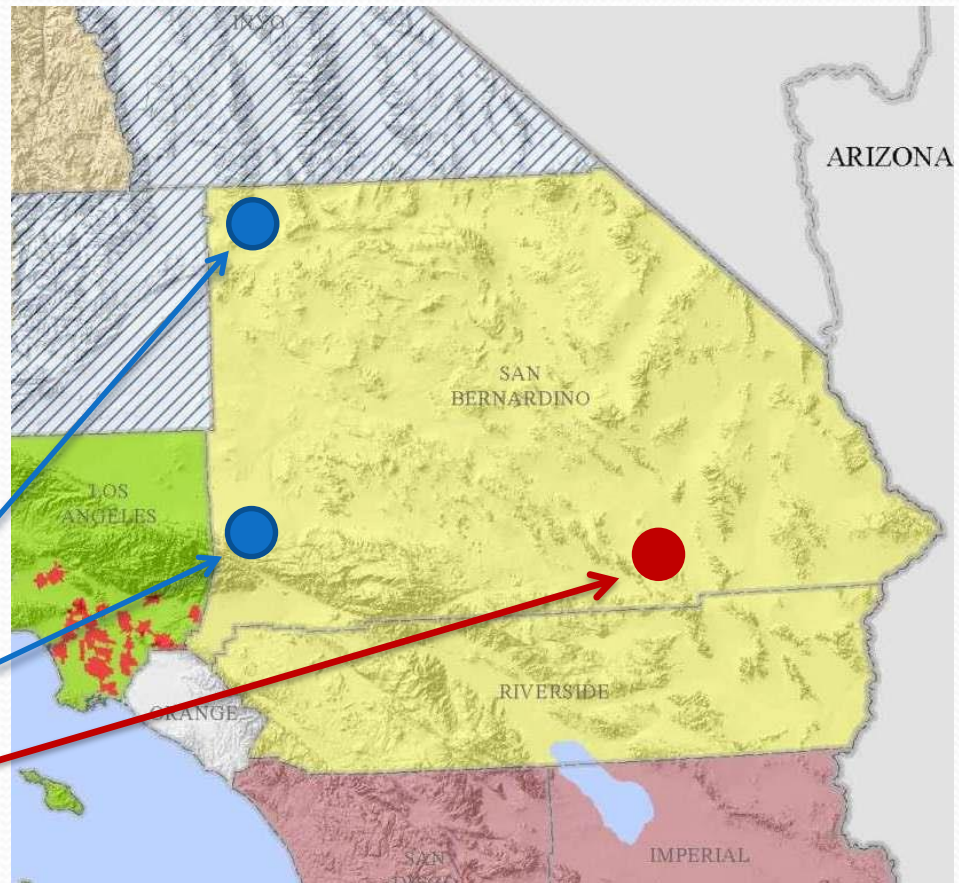




## CPUC Resolution T-17443

### Priority Communities San Bernardino County

- *Red Mountain, Searles Valley, and Trona*
- *Phelan and Pinon Hills*
- *Morongo Basin*

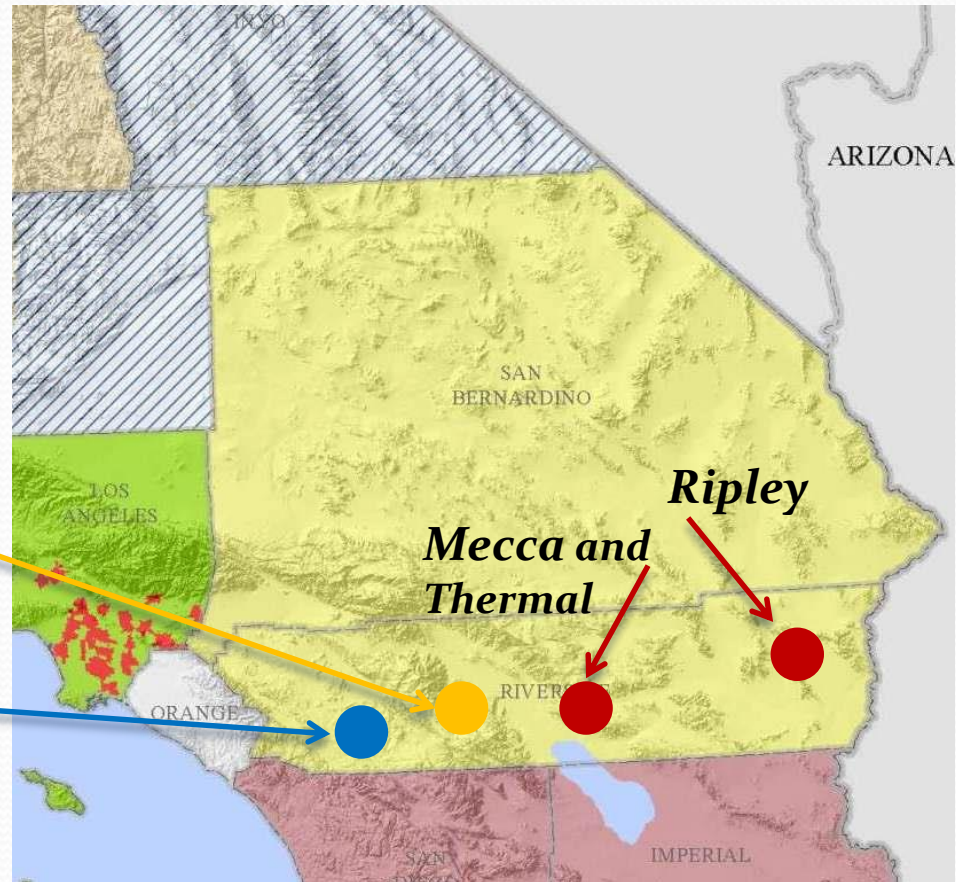




## CPUC Resolution T-17443

### Priority Communities Riverside County

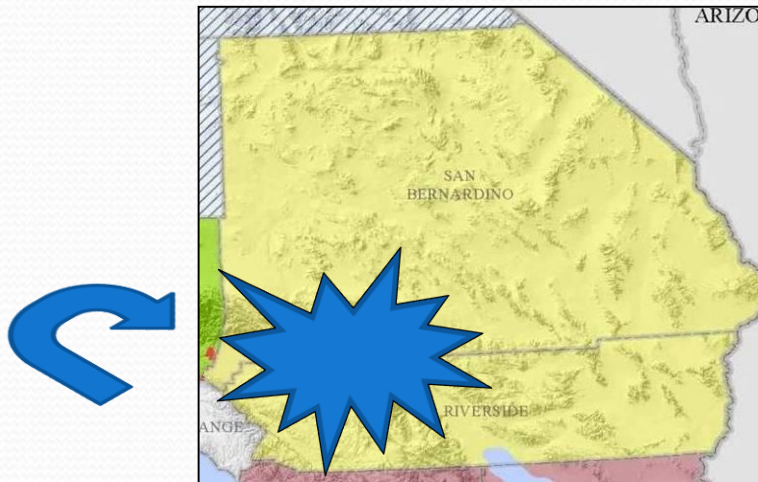
- *Anza, Mountain Center and Pinyon Pines*
- *Aguanga*





## Inland Empire Regional Broadband Consortium

### The Inland Empire is a “Smart Region”



### “Smart Region”

- UCR Medical School
- UCR Center for Broadband Policy & Digital Literacy
- Loma Linda University & Medical Center
- Esri
- Kelly Space and Technology
- Cal State University San Bernardino
- University of Redlands
- Solar Energy

#### What makes a Region Smart?

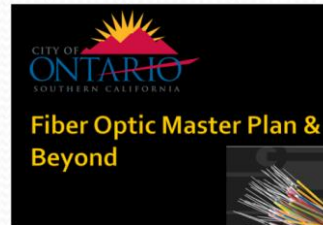
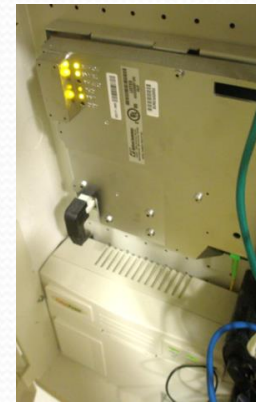
- Affordable High Speed Broadband
- Gigabyte Internet Speeds
- Wireless Hot Spots
- Fiber to the Home
- Telecommuting
- Technology Companies
- Start-up Incubators
- Venture Capitalists
- Entrepreneurs
- High School and College Graduates
- Online Education
- Research Universities
- Telemedicine
- 24-Hour Government
- Connected Citizens
- Social Networking and Meet-ups
- Culture Experiences and Art
- Tourism
- Smart Grid
- Sustainability
- Quality of Life





## Inland Empire Regional Broadband Consortium

- RIVCOconnect – Gigabit Initiative for Riverside County
- Loma Linda Connected Community Program
  - Fiber to the Home (FTTH) & everywhere
  - City Ordinance
  - Municipal owned-operated
- City of Beaumont FTTH (New Housing Developments)
  - HOA's contract with ISP
  - Fiber runs to closet—All homes have Fiber
  - High Speed Internet always on; paid for in HOA Fees
- City of Ontario Fiber Plan
- City of Rancho Cucamonga Fiber Optic Master Plan
- Riverside Public Utilities Dark Fiber
- Coachella Valley i-Hub





# Los Angeles County Regional Broadband Consortium

Consortia Learning Summit Presentation

2018



# Lessons Learned

- Community members need access to digital literacy education to understand how to operate a computer.
- Communities need opportunities to purchase low cost computers/technology/equipment.
- There is a high need and demand for access to low-cost and reliable broadband service.



# Best Practices

- Engaging community members and other CBOs for buy-in to support our efforts was vital to success.
- Utilizing various methods for advertising and promotion.
- Messaging to individuals that there wasn't any fine print and costs associated with the services and activities being provided to the community.
- Meeting the needs of the community being served during the hours operation that are most needed.



# Challenges

- Adoptions – the dependence on mobile devices as the primary means to connect to internet and the subsequent lack of interest in a desktop/laptop computer.
- Increasing the number of new (unduplicated) participants
- Keeping current and relevant offerings of classes and workshops that are of interest and need for the community being served.
- The level of strength in connectivity is not equitable across the board.



## Next Steps

- Creating and fostering relationships with partners in the community to ensure that the goals and efforts of the consortium can continue beyond the grant's cycle.
- Create a sustainable group of individuals committed to providing the community with the information and resources necessary to improve their lives through technology.
- Partnerships with local nonprofits, businesses, elected officials, and foundations to increase the likelihood that the efforts of the Consortium can be sustained.

# Redwood Coast Connect

*Boldly Going Where  
No Fiber Has Gone Before*

*CPUC CETF Annual Meeting*

**Connie Stewart, Executive Director, California Center for Rural Policy**

**<http://www2.humboldt.edu/ccrp/projects/rccbc/>**

**March 6, 2018**

# Redwood Coast Connect –Del Norte, Humboldt and Trinity Counties

## Goal 1

To participate in the public policy process on the state and federal level to improve deployment.

## Goal 2

Adoption and reliability for our region and other rural communities.



# RCC's History...

- Redwood Coast Connect (RCC) was created in 2007
- Regional Plan created in 2009 --thanks to funding from CETF & local partners. Key findings:
  - Lack of backhaul capacity is a key limiter to deployment in many areas.
  - The region suffers from a lack of redundancy that hampers business expansion.
  - Existing providers not interested in big investments in the region but can provide last mile service if affordable middle mile is available.
- **Our Target: Backhaul infrastructure for six middle miles which will provide access for 98% of all households**

# Our Success!--CASF Grants

- **Hwy 36 project (IPN fiber in PG&E right of way) \$5,753,240**
  - Serves four of most remote communities in Trinity
  - Provides redundancy to Humboldt County bay area
- **Klamath River Rural Broadband Initiative Project \$6,602,422**
  - 82.3-mile fiber optic cable from Orleans-Humboldt Bay
- **Hwy 199—Frontier Communications \$68,168 16 miles**
- **Digital 299—Inyo Networks \$46,709,036**
  - 283 miles Redding to Hoopa to Humboldt Bay
- **Petrolia Project—Frontier Communications \$202,557**

■ Completed

■ In Progress

# Our Success!--USDA Community Connect

- **Community Connect Grants:**
  - Yurok Tribe -- Grant Amount: \$564,000
  - Karuk Tribe – Grant Amount \$1,141,870

■ Completed  
■ In Progress

# Other RCC Accomplishments

- **Federal Policy Work**

- Witness at the Congressional Subcommittee on Federal Lands Hearing on HR 2425 Public Lands Telecommunications Act
- Helped Organized and Host "America's Rural Opportunity Series: Infrastructure workshop" with KRBI (Karuk Tribe) in Washington DC on need and possible solutions for rural broadband infrastructure deployment. There were 400 attendees.
- Guest on Congressman Jared Huffman's Podcast--  
<https://medium.com/@RepHuffman/new-episode-unlocking-rural-broadband-access-with-connie-stewart-59414d188a77>

# Other RCC Accomplishments

- **Federal Policy Work**

- Advocacy on FCC Broadband issues
- Developing a Close Working Relationship with the Kim Dolbow Vann, California's new RD Director, who is on the President's infrastructure committee.
- On stage with Harold Feld discussing rural broadband issues at the Aspen Institute Summit on Inequality & Opportunity March 8, 2018

# Other RCC Accomplishments

- **Statewide Efforts**

- State Policy Work

- AB 1782 (Chesbro) AB 1262 (Wood) and AB 1549 (Wood)

- 2 member's of our Consortium have received CENIC's "Innovations in Networking Gigabit/Broadband/Applications award

- 2017 Rural County Representatives of California President's Award winner

- "Sherpa of the Redwoods" work

- Multi day trip with Frontier Communications to regions Tribes
- Multi day trip with federal agency staff of the region

# Other RCC Accomplishments

- **Regional Policy Work**

- Humboldt County Telecom Element in General Plan
- Ordinance's coming—Cell Towers, Dig Once
- Have hosted 10 “Annualish” Rural Broadband Forums
- Engaged regional leaders –BOS active letter writers
  
- Helped organized the CPUC "Rural Call Completion“ proceeding open forums.

## RCC Challenges

- Developing good state and federal policy on economic development broadband needs

## Future Sustainability Plans

- RCC partners are fully funded well into the future





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# Tahoe Basin Project – Connected Tahoe

CA Public Utilities Commission - CA Advanced Services Fund

Consortium Summit – March, 6, 2018

# Key outcomes of consortium achievements in 3 years



- Compiled GIS maps with speed test results for the entire Lake Tahoe Basin.
- On leadership team for El Dorado County broadband initiative, including steering committee for broadband master plan development, with goal of ubiquitous availability in South Lake Tahoe and elsewhere in the county.
- Participant in Caltrans "Dig Once" task force, leading to implementation of AB1549-mandated program.
- Facilitated the upgrade of a node in a business sector of South Lake Tahoe by alerting Charter to a potential problem with degradation of broadband speeds.
- Connected the South Lake Tahoe, CA Library with CENIC to expand broadband service.
- Facilitated Broadband Subcommittee, made up of Internet Service Providers, Jurisdictions, Public Utilities Agencies and other stakeholders created a consensus based "Dig Once Policy" for the entire Lake Tahoe Basin.
- El Dorado and Placer Counties are moving forward to add the Broadband Subcommittee "Dig Once Policy" as part of their county general plans.
- Coordinated effort to expand broadband and cell service on public lands (78% of the land in the Tahoe Basin) through a pilot project to facilitate permits for added communication towers.

## Best Practices Achieved



- Mapped the speed tests and gaps in service at three different levels to show the underserved areas.
- Relationship building with local jurisdictions, agencies, utility districts, businesses, federal and state government, colleges, school districts and internet service providers – built trust among partners and a willingness to consider creative options to expanding service.
- Consensus based process to develop a “Dig Once Policy.”
- Pilot project on Cell Service Expansion (and now some broadband) with US Forest Service and Tahoe Regional Planning Agency to streamline and accelerate permitting for communication towers on public lands.

## Challenges Faced



- The Tahoe Basin Project supported two CASF grant applications in the first two years. Both did not get funded.
- The Alpine Peaks grant was denied due to being “served” despite our data showing it was “underserved.”
- The Trans-Sierra grant was stalled after Alpine Peaks was denied.
- CASF grants apparently don’t work in Lake Tahoe where neighborhoods are underserved. Our speed test data still shows that Alpine Peaks (West Shore, CA) and Kingswood West (Trans-Sierra - North Shore, CA) are underserved after three years of working to expand broadband to these communities.
- Appealing a denial of the data in the Alpine Peaks CASF grant would have been cost-prohibitive and likely not resulted in a reversal of the decision.

## Outstanding Gaps/Needs



1. Better Data gathering. The CPUC website link to conduct speed tests did not match the speed test results from other online services (speedtest.net and ookla). The Tahoe CASF grants were denied based on CPUC data – not these other sources.
2. A more robust appeal process for CASF grant applications.
3. Creative funding options to help underserved neighborhoods where the fiber is just out of reach. In both Alpine Peaks and Kingswood West, the fiber connection is just outside the neighborhood, but providers won't extend service without subsidies. Homeowners often don't have tens of thousands of dollars to hook into that fiber and there is no current source of funding to help with that.

## Future Sustainability Action Plan



- Ensure all Lake Tahoe Basin jurisdictions adopt the “Dig Once Policy” so no more opportunities are missed to get conduit for fiber in the ground during large construction projects.
- Find funding for the underserved neighborhoods to connect them with nearby fiber lines. Current options include Homeowners Associations paying a portion along with the Internet Service Providers.
- Leveraging the CPUC Consortium grant, the Tahoe Basin Project successfully received a federal Economic Development Administration grant for a Feasibility Study to find the best local solution to implementing broadband expansion in Lake Tahoe since the CASF process has proven not to work in the region.



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GEOGRAPHICAL  
INFORMATION CENTER  
California State University, Chico



**NORTHEASTERN CALIFORNIA  
CONNECT CONSORTIUM**



**UPSTATE CALIFORNIA  
CONNECT CONSORTIUM**

# NECCC & UCCC Summary Report

03-06-2018

# Action Plan Goals

- Conduct outreach activities with local governments and ISPs to define broadband priority areas and needs in across our consortia region.
- Promote development and implementation of local government policies to support cost/efficient broadband infrastructure deployments.
- Promoted downloading and using CPUC's CalSPEED to validate broadband availability/speeds in the region.
- Support ISPs in preparing applications to CASF by providing local data and information to build their business cases.

# Accomplishments

- Conducted kickoff webinars and a forum to reintroduce our consortia scope of work and activities.
- Met with cities/counties officials/staff to learn current broadband service status and their needs.
- Facilitated a dig once expert group session bringing together technical staff from public works departments, ISPs, construction companies and contractors.
- Began building a cities/counties broadband asset inventory.
- Developing a social media campaign encouraging broadband users to conduct CalSPEED testing.
- Supported ISPs for preparing CASF applications by providing information in the form of tables, GIS files or maps.

# Challenges

- Aligning interests of different parties (local governments, internet service providers and residential customers) to define priority areas and needs.
- Finding consensus from different interested parties (local governments, ISPs, contractors, developers) for developing/implementing appropriate local policies.
- Achieving consensus regarding actual levels of broadband service availability.

# Outstanding Gaps/Needs

Broadband service availability at 6/1Mbps in the ten counties of the Northeastern and Upstate Consortia

County	All Households (2010 Census)	Served		Unserved		No Service	
		Number	Percent	Number	Percent	Number	Percent
<b>California</b>	<b>267,739</b>	<b>219,438</b>	<b>82.0 %</b>	<b>8,163</b>	<b>3.0 %</b>	<b>40,138</b>	<b>15.0 %</b>
Butte	87,618	78,345	89.4 %	981	1.1 %	8,292	9.5 %
Colusa	7,056	6,129	86.9 %	0	0.0 %	927	13.1 %
Glenn	9,800	6,566	67.0 %	989	10.1 %	2,245	22.9 %
Lake	26,548	22,346	84.2 %	1,296	4.9 %	2,906	10.9 %
Lassen	10,058	8,733	86.8 %	0	0.0 %	1,325	13.2 %
Modoc	4,064	2,828	69.6 %	0	0.0 %	1,236	30.4 %
Plumas	8,977	3,761	41.9 %	40	0.4 %	5,176	57.7 %
Shasta	70,346	60,892	86.6 %	2,592	3.7 %	6,862	9.8 %
Siskiyou	19,505	15,218	78.0 %	286	1.5 %	4,001	20.5 %
Tehama	23,767	14,620	61.5 %	1,979	8.3 %	7,168	30.2 %

# Future Sustainability Action Plan

- Work with local governments to define geographic priority areas and needs in across our consortia region. Prioritization includes economically distressed areas.
- Work with ISPs to submit CASF applications for deployments in unserved priority areas and areas next to CAF2 areas.
- Work with local governments to update general plans and incorporate telecom elements, develop and implement policies, and providing assessment to streamline permit process/access to publicly owned assets.
- Promote region wide downloading and using CalSPEED to validate broadband availability/speeds in the region.
- Work with local partners in the region to promote broadband adoption programs.

Thanks!





# North Bay/North Coast Broadband Consortium

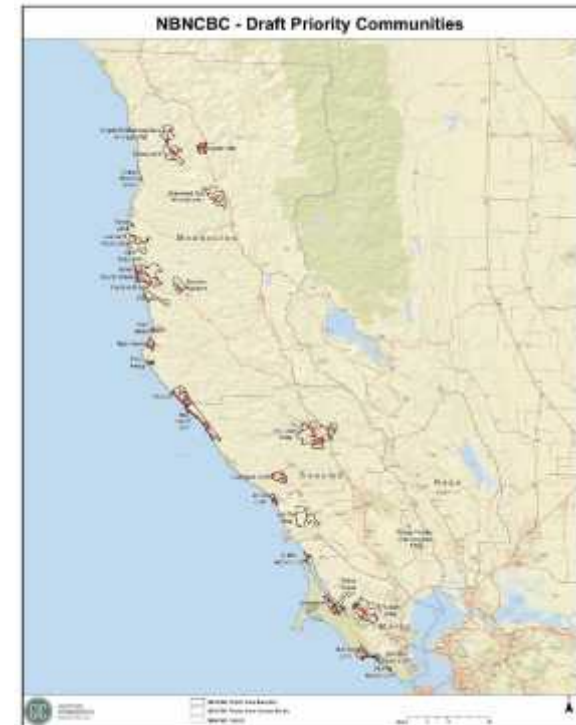
MARIN COUNTY – MENDOCINO COUNTY  
NAPA COUNTY – SONOMA COUNTY



# Overall Organization

North Bay/North Coast  
Broadband Consortium

- ▶ Membership
- ▶ Oversight Committee
- ▶ Five Work Plans
- ▶ County Advisory Groups
- ▶ County Management Teams
- ▶ NBNCBC Management Team



# Foci of County Work Plans

North Bay/North Coast  
Broadband Consortium

- ▶ Marin: Projects in Rural West Marin
- ▶ Mendocino: County Strategic Plan
- ▶ Napa: Verification of CPUC Mapping and Data
- ▶ Sonoma: County Strategic Plan
- ▶ NBNCBC: Regional Middle Mile

# Community Engagement Approaches

North Bay/North Coast  
Broadband Consortium

- ▶ Marin: Bolinas Public Utility District and Nicasio Landowners are lead development sponsors.
- ▶ Mendocino: City Councils and Local Community Groups
- ▶ Napa: Community Groups
- ▶ Sonoma: Cities/Community Groups in Each District

# Provider Engagement Approaches

North Bay/North Coast  
Broadband Consortium

- ▶ NBNCBC: Contacted Every Provider Serving Region
- ▶ Marin: Identified/Working w/ Experienced CLEC
- ▶ Mendocino: Identified/Worked with Startup Providers
- ▶ Sonoma: Engaged and Interviewed Key Providers

# Post Fire Activities

North Bay/North Coast  
Broadband Consortium

- ▶ Just Completed a 3-County Survey about Impact on Residents
- ▶ Requesting AT&T, Comcast, Frontier and Sonic on Rebuild Plans



# CALIFORNIA ADVANCED SERVICES FUND



*Regional Consortia Learning Summit  
Tuesday, March 6, 2018*