



California Emerging Technology Fund

Annual Report 2016–2017

Pioneering Public Policy to Close the Digital Divide

California is pioneering public policy to close the Digital Divide and is recognized as being in the forefront of Digital Inclusion. This stems from purposeful leadership from the Governor, Legislature, and California Public Utilities Commission complemented by the California Emerging Technology Fund (CETF) serving as an effective catalyst for action to accelerate the deployment and adoption of broadband—a generic term for high-speed Internet infrastructure, an essential service in the 21st century. As a result, significant progress has been made in the last nine years. But, the challenges that remain demand an even deeper commitment to prudent economic investment and a more enlightened commitment to basic fairness. That is why CETF is fiercely committed to getting everyone connected, incorporating technology into major public policy strategies, and modernizing the regulatory frameworks. We urge all elected officials and policymakers to recognize that digital access is a 21st century civil right and we call upon the Legislature and Governor to ensure digital equality by passing the Internet For All Now Act.

Dr. Barbara O'Connor CETF Co-Chairman and Secretary As CETF begins the tenth year of forging action to close the Digital Divide in California, we both reflect on significant progress and recognize the challenge that remains. Too many rural communities are without broadband access and the most disadvantaged residents are without the financial means to obtain service. This puts California at a competitive disadvantage nationally and globally. Some residents are "information rich" and others are "information poor"—a situation that California cannot afford. Thus, CETF continues to focus on both "availability" and "affordability" through a range of strategies. We worked diligently at the federal and state levels to support construction of broadband to unserved areas. We funded community organizations to teach digital literacy and launched programs for education, healthcare, and housing. And, we urged broadband providers to offer affordable rates for low-income households and negotiated public benefits in regulatory proceedings. But, closing the Digital Divide requires additional action. It is time for all policymakers and stakeholders to support the Internet For All Now Act.

Rich Motta
CETF Co-Chairman and Treasurer





Internet For All Now

Internet access is something we often take for granted, but for many Californians it is a significant financial burden. Not only does the cost of Internet service need to be affordable for the household budget, but one also needs a computing device—a smartphone, a tablet, or a computer—to make the connection. Today 16% of California households—more than 5 million people—are not online at home. These residents are stuck on the wrong side of the Digital Divide, being left behind at an accelerating pace. Here's how digital access transforms lives:

Leticia is hard working and runs a small business from home. When her husband lost his job, they had to make tough budget decisions and no longer could afford Internet service. While it was a sacrifice for the whole family, it mostly impacted their daughter's ability to do her homework. Although their daughter was a diligent student and would stay after school to use the computer lab and local library, at times she could not complete all her assignments. Leticia watched her daughter's grades suffer and was determined to get a home connection again. CETF partner Chicana Latina Foundation helped Leticia sign up for Internet service at \$10 a month and her daughter's academic performance rebounded. Leticia also uses the Internet now to promote her business online to provide for her family.

Ty was unemployed but had a shot at a job doing sales that required individuals to provide their own Internet connection. CETF partner California Foundation for Independent Living Centers arranged for Ty to sign up for affordable broadband service and acquire a lower-cost computer so he could go back to work. Today, Ty and his wife Melissa are working together signing up others for affordable broadband service and have been able to earn enough money to pay old bills and buy new work clothes.

Millions of other Californians can be on the path to a better future by being connected—that is why *Internet For All Now* is so vital to the future of California.



CETF partner Chicana Latina Foundation helped Leticia Amabilis and Natalia Diaz Amabilis obtain affordable Internet service that improved Natalia's academic performance and promotes Leticia's business online.



Today, Ty McKay enrolls other households for affordable broadband services.

California Emerging Technology Fund: Catalyst for Action

The California Emerging Technology Fund (CETF) was founded as a public benefit from the mergers of SBC-AT&T and Verizon-MCI approved by the California Public Utilities Commission (CPUC) in 2005. AT&T and Verizon contributed a total of \$60 million in Seed Capital to establish CETF. The CPUC assigned CETF with the mission to close the Digital Divide by accelerating the deployment and adoption of broadband and other advanced communications services to unserved and underserved communities. CETF is a unique organization in the nation—no other state has such a non-profit with a primary mission to close the Digital Divide by addressing the challenges of both "supply" and "demand" to increase the use of technologies enabled by ubiquitous high-speed Internet access. As originally envisioned by the CPUC, CETF has been a vital catalyst for bringing together diverse stakeholders—from elected officials and policymakers, to regional and local civic leaders, to community-based organizations (CBOs) and broadband providers—to collectively address the challenges associated with the many facets of the Digital Divide.

The work of CETF is guided by a Strategic Action Plan adopted by the Board of Directors in 2007 after a thorough assessment of existing research and an intense statewide "listening and fact finding" process to determine "what works" in closing the Digital Divide. The Strategic Action Plan was "peer reviewed" by more than 60 stakeholders convened by the California Foundation on the Environment and Economy. As set forth in the Strategic Action Plan, CETF is performance-driven and outcomes-focused with overall metrics for accountability that drive a disciplined culture to achieve results—to produce a tangible "return on investment" of the original Seed Capital. CETF set overall broadband goals for success in a decade (by 2017)

at 98% deployment and 80% adoption. CETF identified 3 priority consumer communities for grantmaking: Rural and Remote Areas; Urban Disadvantaged Neighborhoods; and People with Disabilities. To date, CETF has leveraged 4-fold the investments in grants and has facilitated significant additional public and private investment to close the Digital Divide.

Goals for Success: 98% Deployment and 80% Adoption

Supply - Deployment

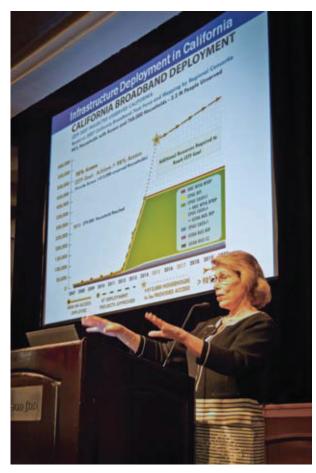
- Access for At Least 98% of Households by 2023
- Robust Rural-Urban California Telehealth Network (CTN)
- All Tribal Lands Connected and Part of CTN

Demand - Adoption

- Overall Statewide Adoption 80% by 2017 and 90% by 2023
- Adoption in All Regions and Socioeconomic Groups At Least 70%
- Increased Overall Accessibility and Universal Design

California a Global Leader in Deployment and Adoption

- Sufficient Speeds for Consumer Applications that Drive Adoption
- Increased Economic Productivity
- Reduced Environmental Impacts



CETF President and CEO Sunne Wright McPeak briefs the 2015 Local Government Roundtable on the opportunities for leadership and action to achieve 98% deployment and 80% adoption in California.

5 Overarching Strategies to Close the Digital Divide

CETF pursues 5 overarching strategies to achieve optimal impact and a higher return on investment of the original \$60 million Seed Capital:

- 1 Civic Leader Engagement
- 2 Venture Philanthropy Grantmaking
- **3** Public Policy Initiatives
- 4 Public Awareness and Education
- **5** Strategic Partnerships

These strategies are inter-related and mutually reinforcing as outlined on the next pages.

5 Overarching Strategies to Close the Digital Divide

1 Civic Leader Engagement

Engage and mobilize a "critical mass" of regional and local leaders to sustain a focus on closing the Digital Divide and to integrate Digital Inclusion into key strategies to promote the regional economies and address local challenges.

- Rural Regional Aggregation Demand Projects
- Urban Regional Roundtables
- 15 Regional Consortia with Funding from California Advanced Services Fund

Achieve 98% Deployment and 80% Adoption

2 Venture Philanthropy Grantmaking

Establish and support a network of "trusted messengers" and "honest brokers" to reach priority consumer groups in target communities.

- \$30.2M in Grants to More Than 100 Community-Based Organizations (CBOs) and Public Agencies Leveraging More Than \$112M in Matching Funds
 - ► CETF 1.0: \$20.8M to 57 CBOs
 - ► CETF 2.0: \$2.6M to Match \$14.3 in 2 ARRA NTIA Grants for 20 CBOs and Their Partners
 - ► CETF 3.0: \$6.8M *Get Connected!* Fund to Increase Broadband Adoption for 33 CBOs and Their Partners
- Capacity Building and Learning Communities
- Accountability for Performance and Results: Meeting and Exceeding Outcome Goals



3 Public Policy Initiatives

Provide a positive public policy environment to optimize the impact of grants and to accelerate broadband adoption, including participation in regulatory proceedings to secure affordable broadband for all households.

- Digital Literacy: Executive Order and Action Plan; Workforce Training Policy; Career Pathways; and ICT Partnerships
- School2Home: Technology and Parent Engagement Integrated into Teaching and Learning for Low-Performing Middle Schools as Centerpiece for Neighborhood Transformation
- California Telehealth Network: Medically-Underserved Rural and Urban Communities Connected to Medical Centers for Access, Quality of Care and Cost Savings
- Smart Housing: State and Federal Policy to Connect All Publicly-Supported Housing; Tool Kit; Partnerships with Housing Authority of the City of Los Angeles, National Housing Conference, and HUD ConnectHome
- Smart Communities: Smart Infrastructure Policy; Resource Guide for Local and Regional Government Leaders; Broadband as a Green Strategy; Local Government Roundtable
- Affordable Broadband: FCC Broadband Lifeline; Public Benefits in Corporate Consolidations

4 Public Awareness and Education

Increase overall awareness among priority consumer communities about the benefits of broadband as a foundation and support for all other strategic actions.

- Statewide Annual Survey on Broadband Adoption to support Civic Leader Engagement
- Get Connected! Public Awareness and Education Program: GetConnectedToday.com Website (Online Basic Digital Literacy in 4 Languages); Community Connect Fairs; Multilingual Media Messages Based on Research
- Internet For All Now Public Education and Social Media Mobilization Initiative

5 Strategic Partnerships

Forge collaboration and shared funding with governments, foundations and employers to joint venture investments on major initiatives to sustain focus and efforts to close the Digital Divide.

- Partnership with National Non-Profit EveryoneOn to Increase Broadband Adoption
- Collaboration with Energy Utilities to Get Low-Income Consumers Online
- Neighborhood Transformation Partnerships with County, City and School Leaders

A Record of Accomplishment

California is beautiful and magnificent—and it is very big with a Digital Divide larger and more challenging than in any other state. Too many rural communities and productive farmlands lack broadband infrastructure to support adequate public safety, economic development, and quality of life. Too many urban residents in disadvantaged neighborhoods lack affordable access to get ahead. In the heart of Silicon Valley, parents drive their children to the library nightly so they can get on a computer with Internet access to do their homework. In Los Angeles, low-income job hunters take long bus rides to a job-training center to submit their resumes online as required by employers. In Fresno, migrant families spend all of their income on rent and food, leaving nothing to pay for a computer and Internet service. This is unacceptable in a state that prides itself as the center of the technology revolution.

The California Emerging Technology Fund (CETF) and partners know well from first-hand experience what it takes to close the Digital Divide. CETF has a record of accomplishment by systematically implementing the Strategic Action Plan with the 5 Overarching Strategies while driving to the big goals of 98% deployment and 80% adoption in a decade. These achievements form a solid foundation for future success—provide hope and promise for completing the job of closing the Digital Divide with equitable Digital Inclusion.

44 CETF provides the essential leadership to engage stakeholders and a vital voice to address the needs of the unserved and underserved.

Barb Johnston CEO, HealthLinkNow, Inc. CETF Founding Director

Highlights of the Year

CETF Urges FCC to Approve Broadband Lifeline Program: CETF actively urged the Federal Communications Commission (FCC) to establish a widely-available affordable broadband program for all low-income residents referred to as "lifeline" because of the importance today of connectivity to daily lives. CETF engaged 137 prominent leadership organizations and elected officials to endorse the policy recommendations and mobilized more than 70,000 individuals to send emails to FCC Commissioners. The FCC approved a Broadband Lifeline Program in March 2016.

CETF Leads Effort to Continue Funding for Regional Consortia: CETF worked with a diverse coalition of civic and community organizations to ensure continued funding for Regional Consortia from the California Advanced Services Fund (CASF). The Legislature unanimously approved and the Governor signed into law AB1262 (Assemblymember Jim Wood) to ensure continued local leadership to achieve the State's goal of broadband access for 98% of all households.

CETF Partners with HUD to Implement ConnectHome: CETF has been a leading champion for years of getting all residents online in publicly-subsidized housing. This concept of "smart housing" got a big boost when the U.S. Department of Housing and Urban Development (HUD) and the White House announced the ConnectHome Initiative. CETF was named to help fund and oversee the program in California.

CETF Pursues Partnerships with Energy Utilities: CETF is pursuing a major new strategy to partner with energy utilities to reach all of their low-income customers and get them online to help save energy and reduce impacts on the environment as well as close the Digital Divide. The CPUC Low-Income Oversight Board has taken a keen interest in this approach to address several challenges for low-income households. This strategy has the promising potential to reach millions of low-income customers currently not online.

CETF Secures Public Benefits in Regulatory Proceedings: CETF participated as a legal party in several proceedings before the FCC and CPUC to ensure tangible public benefits resulted from corporate consolidations. CETF entered into agreements with Frontier Communications, Inc. and Charter Communications, Inc. that will produce significant advances in broadband deployment and adoption—reaching 257,000 unserved households with infrastructure and getting 550,000 low-income households online.

The following pages summarize the recent activities and achievements for each of the 5 Overarching Strategies.

44 The most unique role that CETF fills is "collaborator"—pulling disparate entities together. The greatest impact of CETF is the policy work at the FCC, CPUC and California Legislature—from shaping corporate mergers to bringing focus and funding to close the Digital Divide. 77

Lloyd Levine Former Chairman, Assembly Committee on Utilities and Commerce CETF Founding Director

Tim McCallion West Region President Retired, Verizon

created CETF. The changes include: deployment on Fiber to the Premise in a number of areas; the introduction of smartphones and tablets; deployment of wireless broadband (4G LTE); dramatic reductions in the cost of computing; widespread e-commerce; and increased broadband speeds. What has not changed is that the availability and adoption of broadband has not yet achieved near ubiquity in California. While much progress has been made, the work of CETF continues to be very important to achieve the goals established by the CPUC and endorsed by the legislature.



Ken McNeely President, AT&T California

44 The world has been reinvented in the last 5 years. Our goal should be to accelerate deployment of the 21st century infrastructure and that is broadband. Broadband is the new universal service. **77**



1. Civic Leader Engagement

Engagement of civic leaders in stakeholder organizations is the foundational strategy to leverage the original \$60 million Seed Capital. It is a powerful fulcrum to optimize impact in all other strategies to close the Digital Divide in a state as large and diverse as California. CETF initially convened leaders in rural counties and funded the formation of Regional Consortia to implement Rural Regional Aggregation Demand Projects to identify needs, aggregate demand, and map assets to encourage broadband deployment. CETF then convened leaders around Urban Regional Roundtables to formulate action plans to integrate broadband applications into initiatives addressing local priorities such as economic development, education, workforce training, and health care. CETF also provided small matching grants for the formation of Urban Regional Consortia. CETF then sponsored legislation to fund Regional Consortia through the California Advanced Services Fund (CASF) because the evidence showed their cost-effective positive impacts in driving to achieve broadband deployment and adoption goals. Today there are 15 Regional Consortia across California engaging the spectrum of stakeholders—local elected officials, government agencies, employers, community organizations, and broadband providers—to collaborate to close the Digital Divide. The Legislature and Governor reaffirmed the value of the Regional Consortia by unanimously enacting legislation in 2015 (AB1262 by Assemblymember Jim Wood) to renew their funding.

Statewide organizations representing local elected officials—California State Association of Counties (CSAC), Rural County Representatives of California (RCRC), and League of California Cities (LCC)—are providing pivotal leadership in advancing Digital Inclusion. RCRC helped formulate AB1262 and CSAC and LCC leaders provided key support. Local elected officials are becoming broadband champions and engaged leaders in the Regional Consortia.



2. Venture Philanthropy Grantmaking

CETF regards grants as "investments" for which there must be measureable returns and tangible results-referred to as "venture philanthropy" grantmaking. The CETF Strategic Action Plan identified 3 primary consumer communities for grantmaking: Rural and Remote Areas; Urban Disadvantaged Neighborhoods; and People with Disabilities. Grantees are selected because of their capacity to deliver outcomes and their credibility as "trusted messengers and honest brokers" for the priority consumer communities. In addition to meeting their performance requirements for specific deliverables and outcomes, grantees are engaged as partners in driving to the statewide goals for closing the Digital Divide. CETF also facilitates collaboration among grantees through "learning communities" to enhance their effectiveness and expand their capacity. Since 2007, CETF has committed more than \$30 million in grants to more than 100 non-profit community-based organizations (CBOs) and public agencies (see a list of all grantee partners on pages 22-23 and visit the CETF website for Final Reports). CETF has leveraged 4-fold the Seed Capital invested in grants with grantees generating more than \$112 million in matching funds.

In 2010, CETF received 2 American Recovery and Reinvestment Act (ARRA) grants from the U.S. Department of Commerce National Telecommunications and Information Administration (NTIA) totaling \$14.3 million to increase broadband adoption in California. The 2 grants supported the work of 20 CBOs and CETF provided half of the required cash match. The NTIA ARRA funding built upon the initial round of CETF grantmaking and the investment in development of the *Get Connected!* Public Awareness and Education Program, allowing the federal government to better leverage ARRA funds for greater impact. The NTIA grants were completed in 2013.

The first round of grantmaking is referred to as "CETF 1.0" because it coalesced a critical mass of partner CBOs as a foundation for reaching a sufficient number of Californians to close the Digital Divide. Leveraging CETF funds with the ARRA NTIA grants is referred to as "CETF 2.0" because it built on that foundation and took collaboration to the next level of impact. The current and last round of grantmaking using original Seed Capital is referred to as "CETF 3.0" because it relies on the "lessons learned" from the first 2 phases and focuses integrated efforts on increasing broadband adoptions in the poorest communities. CETF 3.0 is promoting "Neighborhood Transformation" as a comprehensive framework to achieve Digital Inclusion by effectively tackling the "wall of poverty." All CETF 3.0 grantees are responsible for achieving or contributing to new broadband adoptions by low-income households.



A Chicana Latina Foundation (CLF) Scholarship recipient and Ambassador, Crystal Owings (right) wanted to continue the CLF CETF work "Bridging the Digital Divide" and was awarded a \$10,000 Strauss Foundation grant for her project. She bought laptops, recruited fellow UCSC students as trainers, and when Maria De La Luz (left) was presented a Certificate of Completion, she received one of those laptops.

3. Public Policy Initiatives

The pace at which the Digital Divide can be closed is significantly determined by the policy environment in which grantmaking and other strategies are employed. CETF has launched major policy initiatives to accelerate broadband adoption. CETF works with partners and stakeholders throughout the state to promote innovative policy and practice to integrate broadband and computing technologies into strategic solutions and major initiatives. CETF also has advanced public policy through the regulatory process as a legal party before the FCC and CPUC to secure affordable broadband rates and public benefits for broadband deployment and adoption. In addition, CETF serves on the California Broadband Council, the official forum for continued promotion and oversight of public policies to accelerate broadband deployment and adoption. The following summarizes each major policy initiative and highlights recent accomplishments.



CETF Special Counsel Rachelle Chong delivered compelling testimony at a January 2016 CPUC Hearing in Los Angeles. She outlined the strategic public benefits for any broadband company proposing an acquisition or merger: an affordable rate and Digital Inclusion.

Digital Literacy

Digital Literacy is defined as using digital technologies, communications tools, and/ or networks to access, manage, integrate, evaluate, create and communicate information in order to function in a knowledge society. Digital Literacy is essential both to drive demand for broadband adoption and to ensure that broadband adoption is sustainable, which is why CETF sponsored the Governor's Executive Order on Digital Literacy in 2009. Today, the ability to access employment, education, healthcare, and financial services is dependent on digital skills. Most job applications and all unemployment forms must be filed online. Digital Literacy is required for workforce readiness because almost every job requires use of some type of digital technology and an increasing number of employers need workers with information and communication technology (ICT) skills. In K-12 education, the shift to Common Core Standards curricula and computerized assessments requires students to be familiar with using computers to do their homework and take tests.

Highlights of recent accomplishments include:

- CETF is a partner in the Alameda County Office of Education Career Pathways Trust Project funded by the California Department of Education to help young adults with multiple challenges in traditional school be successful in learning for work and life. Civicorps, another partner, has engaged CETF to assist in developing a comprehensive technology education program for their students and families.
- CETF supported the East Bay Economic Development Alliance in (a) assisting East Bay WORKS focus on ICT skills and (b) facilitating collaboration to develop an online directory of ICT training programs.
- CETF is an active participant in Progress Richmond to prototype successful workforce training for hard-to-employ residents. CETF, in collaboration with The Stride Center, has been engaged by Contra Costa County to help implement the Slingshot Initiative to spur employer-driven training for ICT skills.

School2Home

School2Home is an innovative cost-effective initiative to close both the Achievement Gap and the Digital Divide by integrating computing and broadband technologies into teaching and learning in low-performing middle schools with an intense focus on parent engagement. School2Home, comprised of 10 Core Components, provides the essential framework anchored in best practices to turn around low-performing schools and the requisite platform to successfully integrate the use of technology to support innovative pedagogy, personalized learning, and other school-improvement programs (including STEM and STEAM). School2Home also helps students to master competencies under Common Core Standards. Once School2Home has been fully implemented in a school, "rooting the culture" of using technology to engage parents and drive education improvement, students show significant gains in academic performance that outpace comparable schools and statewide averages.

Highlights of recent accomplishments include:

• School2Home is being implemented in 12 districts and 30 schools in the 2016–2017 school year, reaching more than 600 teachers and 14,000 students and their parents in high-poverty communities: Los Angeles Unified School District; Riverside Unified School District; Oakland Unified School District; West Contra Costa Unified School District; Winters Joint Unified School District; Inglewood Unified School District; Sacramento City Unified School District; San Bernardino City Unified School District; Jefferson and Bayshore Elementary School Districts in collaboration with the San Mateo County Office of Education; and Oak Grove Elementary School District and Alum Rock Union School District in partnership with the San Jose Mayor's Office, SVEF, and East Side Alliance.

- School2Home is improving student proficiency in technology. Responses from 2,228 students in the 2015 independent evaluation showed the following improvements since 2011–2012: 85% increased computer and Internet use at home to support learning (up from 73%); 84% use technology in writing assignments (up from 60%); and 90% access the Internet to research school assignments (up from 68%). School2Home is closing the Digital Divide: home broadband adoption grew for English-speaking parents from 83% to 91% (9 percentage point increase) and for Spanish-speaking parents from 71% to 84% (13 percentage point increase).
- California Superintendent of Public Instruction Tom Torlakson and LAUSD Superintendent Michelle King visited Stevenson Middle School for a briefing on significant academic performance improvements with School2Home.



LAUSD Stevenson Middle School (SMS) Principal Leo Gonzalez (right) invited California Superintendent of Public Instruction Tom Torlakson (second from left) to observe the academic progress made by School2Home (S2H) students. They were joined by (left to right) SMS S2H Teacher Marisela Islas, SMS S2H Teacher Christina Vera, and LAUSD Superintendent Michelle King.

Telebealth-Telemedicine

Telehealth-Telemedicine is the ability to promote healthy behavior and provide medical care remotely using broadband connectivity between facilities, thus expanding access to vital services and improving the quality of care by linking critical expertise to medically-underserved communities. It also has the potential to help control costs. CETF was a key partner working with the University of California (UC) and a consortium of State agencies, providers, and funders to found the California Telehealth Network (CTN) with a vision for a robust statewide system. CETF provided \$3.6 million to match an initial grant of \$22.1 million from the FCC to build the network. CETF has contributed more than \$1 million in operating Seed Capital and provided pro bono administrative and management support services to ensure success and sustainability. CTN is the largest statewide telemedicine network in the nation and has a goal to reach at least 1,000 sites by 2018. CETF funded other healthcare leaders to coordinate services with CTN: UC Merced to connect initial telemedicine sites in the San Joaquin Valley (with California Partnership for the San Joaquin Valley and AT&T), California Dental Association (with Verizon), and Palo Alto Institute for Research and Education.

Highlights of recent accomplishments include:

- CTN achieved a milestone of connecting more than 300 sites under the FCC Healthcare Connect Fund program, including the University of California. Safety-net community facilities are increasingly joining CTN, including AltaMed (43 sites) and La Clínica de la Raza (32 sites).
- UnitedHealthcare, Kaiser Permanente, and USDA (Rural Development Distance Learning and Telemedicine Program) have made major contributions to support and expand CTN. California HealthCare Foundation awarded a grant of \$3.3 million to CTN to implement a specialty care demonstration project and provide technical expertise to safety-net community clinics. Several counties are considering agreements with CTN to provide bundled telehealth program planning and implementation services including broadband, equipment, training, and technical support.
- FCC Commissioner Mignon Clyburn keynoted the 2016 CTN Telemedicine Summit outlining policy issues to be addressed for telemedicine to optimize its potential to transform healthcare. CTN CEO Eric Brown was honored as Technology Champion of the Year by the California State Fair.



FCC Commissioner Mignon Clyburn keynoted the 2016 CTN Telebealth Summit in April 2016. She delineated issues to be addressed to optimize the potential of telemedicine.



University of Southern California (USC) Senior Vice President and Chief Executive Officer for Keck Medicine Thomas E. Jackiewicz (far left) actively engaged in exploring how to meet the needs of medically underserved residents in the Los Angeles Region at the USC-CTN-CETF Telehealth-Telemedicine Roundtable in June 2016.

Smart Housing

Smart Housing refers to the policy to ensure publicly-subsidized housing has high-speed Internet connectivity in all units to help residents get out of poverty and transform their lives. There are about 300,000 publicly-subsidized multi-family housing units in California, but most residents are not online. CETF has been a leading voice nationally to advance Smart Housing which now has been endorsed by both the State and federal governments. In 2013 the Legislature and Governor enacted AB 1299 to dedicate \$25 million in CASF for broadband connectivity and Digital Literacy training for public housing, making California the first state to address these needs. Authorized CASF funding will reach about 20% of the existing units. In 2015 the U.S. Department of Housing and Urban Development (HUD) and the White House launched ConnectHome with 28 pilot sites across the nation. HUD also has announced changes in regulations that were proposed by CETF in 2009. In addition, CETF partnered with the National Housing Conference to prepare a report on Smart Housing released in 2015 that called for the HUD actions.

Highlights of recent accomplishments include:

- CETF conducted numerous workshops and provided technical assistance to affordable housing organizations to encourage applications for CASFAB1299 funding. As of July 2016, applications have been submitted requesting \$18.5 million (of the available \$25 million) to connect more than 23,000 units at 374 properties and assist with broadband adoption for more than 10,000 households at 125 properties.
- CETF and the Housing Authority of the City of Los Angeles (HACLA) in collaboration Kalpesh Wireless, Southeast Community Development Center, and ReliaTech completed the Smart Housing

- Pilot Partnership to demonstrate the value of broadband connectivity for public housing residents. CETF contributed \$300,000 to connect all 600 units at MarVista Gardens and increase broadband adoption by residents from 48% to 80% in a year.
- CETF was selected by EveryoneOn to help implement ConnectHome at the 2 California sites in Los Angeles and Fresno. CETF contributed \$50,000 to each site. HUD Secretary Julián Castro met with CETF to confer on Smart Housing and express appreciation for supporting ConnectHome.



HUD Secretary Castro met with CETF staff, CPUC Commissioner Sandoval, and AB1299 author Steve Bradford to discuss ConnectHome.

Secretary Castro thanked CETF for the \$50,000 commitment per California ConnectHome site. CETF is supporting the ConnectHome California initiative in collaboration with HUD and EveryoneOn to ensure the success of the programs in the state. This initiative is being implemented in 27 cities (including Los Angeles and Fresno) and 1 tribal nation. It is expected to reach over 275,000 low-income households—and nearly 200,000 children—with the support they need to access the Internet at home and help close the Homework Gap.

Smart Communities

Smart Communities refers to a policy commitment and focused effort by local governments and civic leaders to optimize broadband deployment as a community grows or redevelops, incorporating it into major public buildings, transportation facilities, and other infrastructure projects. It also means optimizing the use of broadband and other information technologies to deliver public services and integrating it into solutions to major problems to increase efficiency and enhance quality of life. CETF has published several reports that are considered significant reference materials by policymakers. And, CETF continues to facilitate forums and conferences to provide information and data to elected officials to forge new public policy that promotes Smart Communities. The Local Government Roundtable was convened in October 2013 and April 2015 in partnership with the California State Association of Counties, League of California Cities, Rural County Representatives of California, and Valley Vision. LCC and CSAC featured workshops on broadband at their Annual Conferences. See pages 32–36 for a Spotlight on the 2015 Local Government Roundtable.

Highlights of recent accomplishments include:

- CETF compiled a collection and an analysis of county and city policies and ordinances (with a sample policy) that was distributed at LCC and CSAC workshops: *Getting Connected for Economic Prosperity and Quality of Life: A Resource Guide for Local and Regional Government Leaders to Promote Broadband Deployment and Adoption.* CETF also gathered case studies of municipal wireless projects and published a report that continues as a vital resource for local governments considering public networks: *Wired for Wireless: Towards Next Generation Digital Inclusion and Next Generation Government-Led Wireless Networks*.
- CETF and Valley Vision collaborated on a compendium of research and literature about "broadband as a green strategy" and published a summary report to promote Smart Communities titled: Can the Internet Help Save the Environment? YES.
- CETF continues to publish Let's Talk Broadband, a newsletter for keeping public
 officials up to speed on broadband issues which features leaders taking action to
 advance Smart Communities.



The City of Winters has been an early adopter and enthusiastic partner (left to right): Councilmember Harold Anderson; Councilmember Jesse Loren; Councilmember Pierre Neu; Mayor Cecilia Aguiar-Curry; and (in front) Mayor ProTem Bill Biasi.



4. Public Awareness and Education

CETF launched the *Get Connected!* Public Awareness and Education program to raise overall awareness about the benefits of broadband, particularly high-speed Internet access at home, as a foundation for all other strategic actions. The initial 2-year goal in 2008 was to increase adoption among low-income and Latino households statewide by 10 percentage points: the result was a 16 percentage point increase, demonstrating the value of focused public information, outreach and mobilization as an integral component of an overall drive to increase broadband adoption. *Get Connected!* resources include a multilingual website (GetConnectedToday.com) to help non-users learn the basics about computing devices and broadband, public service announcements, and technical assistance to conduct Community Connect Fairs. Local governments across California passed *Get Connected!* Resolutions to declare their commitment to getting all residents online. CETF partnered with United Ways of California / 2-1-1 California, La Opinión, Radio Bilingüe and National Hispanic Media Coalition to produce collateral print and broadcast materials for grantees. CETF also developed social media channels and tools through the *Internet For All Now* mobilization to inform policymakers and regulators.





CPUC Deputy Executive Director (Administrative Services) Ryan Dulin fielded questions at the Local Government Roundtable in Riverside.



Youth Policy Institute (YPI) CEO Dixon Slingerland and Program Director Diana Rodriguez explained current YPI efforts with School2Home to improve the quality of life throughout the designated federal Promise Neighborhoods and Promise Zones.

5. Strategic Partnerships

It is essential for CETF to forge Strategic Partnerships with government, foundations and employers to sufficiently align strategies and investments to help grantees get to scale with broadband adoption. Joint ventures are vital to the success of initiatives such as School2Home, Smart Housing, and the California Telehealth Network. CETF has allocated all of the original \$60 million Seed Capital and a portion of earnings to support work through June 2017. Thus, CETF is working with grantees and other stakeholders to identify and attract Strategic Partners to match and leverage the remaining funds. For example, the Strategic Partnership with EveryoneOn provides an opportunity to engage broadband providers on a national scale and to interact with federal policymakers with greater impact. CETF provided initial funding and office space for EveryoneOn to hire staff in California. CETF is working as a member of the California Broadband Council to collaborate with State agencies and statewide public-purpose organizations to accelerate broadband deployment and adoption. CETF also is working with the CPUC Low Income Oversight Board and engaging energy utilities as partners to get

all of their low-income customers online to both close the Digital Divide and increase energy efficiencies. Energy utilities know the value of having all of their clients online in order to save costs, improve communications and help their customers save time and money. CETF worked with the California Foundation for Independent Living Centers and Sacramento Municipal Utility District (SMUD) to develop a model for outreach and assistance to get their low-income customers online. CETF is exploring pilot projects with several other energy utilities. At the same time, CETF is working with county, city and school elected officials in pacesetter jurisdictions to enter into Neighborhood Transformation Partnership Initiatives to align public resources and programs to promote Digital Inclusion, support School2Home, and tackle the "wall of poverty" with integrated human services. In addition, CETF negotiated Memoranda of Understanding with Frontier Communications, Inc. and Charter Communications, Inc. to provide significant public benefits for broadband deployment and adoption as a condition of recent corporate consolidations. CETF is launching Strategic Partnerships this year with both Frontier and New Charter. Finally, CETF is underwriting assistance to the University of California, Riverside School of Public Policy to help develop their new Center for Broadband Policy and Digital Literacy. CETF in collaboration with the network of partners throughout California provides an "investment ready" opportunity for foundations and other public-purpose investors to leverage expertise for a higher return on their government and philanthropy dollars.



Frontier Communications Area President-West Region Melinda White joined the CETF Southeast Community Development Center tour and expressed enthusiasm for the SCDC work. Afterward, she spoke about the partnership between Frontier and CETF, declaring that Digital Inclusion is "Frontier's DNA."

Public and Private Leaders Forge Strategic Partnerships



Los Angeles City Council unanimously adopted the CETF Internet For All Now (IFAN) Resolution (left to right): Youth Policy Institute Digital Learning Director Diana Rodriguez; Councilmember District 8 Marqueece Harris-Dawson; Councilmember District 3 Bob Blumenfield; Councilmember District 10 and Council President Herb J. Wesson, Jr.; and EveryoneOn Senior Director Norma Fernandez.



HUD Secretary Castro (4th from left) met with CETF (left to right): Former Assembly Utilities and Commerce Committee Chairman Steven Bradford; CPUC Commissioner Catherine Sandoval; CETF President and CEO Sunne Wright McPeak; CETF Smart Housing Associate Vice President Raquel Cinat; and U.S. Department of Housing and Urban Development Pacific/Hawaii Director Ophelia B. Basgal.



Kaiser Permanente Chairman and CEO Bernard Tyson (center right) presented a \$1 million grant check to California Telebealth Network President and CEO Eric Brown (center left). From left to center: UnitedHealth Group Senior Director, Treasury Steven Henry; CTN Co-Chair and UC Office of the President CIO Tom Andriola; and Kaiser Executive Vice President of Community Raymond J. Baxter. From center to right: Kaiser Permanente Northern California Regional Vice President, External and Community Affairs Yvette Radford; CTN Co-Chair and Kaiser Permanente Vice President and Business Information Officer Kevin Hart; and Kaiser Foundation Hospitals and Health Plan, Inc. Executive Vice President and CIO Dick Daniels.



EveryoneOn met with CETF to discuss affordable broadband strategies (left to right): EveroneOn Chief Executive Officer Chike Aguh; Regional Manager-Bay Area Rania Ahmed; Chief Programs Officer Veronic Creech; and CETF Senior Vice President Susan Walters.

Public and Private Leaders Forge Strategic Partnerships



Inland Empire Economic Partnership (IEEP) CEO Paul Granillo and Regional Economist John Husing reported to the CETF Board in 2015 on the IEEP-IERBC-CETF collaboration to incorporate broadband into major initiatives for the Inland Empire.



Southeast Community Development Center received a CETF check for \$5,000 to support advanced Digital Literacy classes for adults.



The CETF Board of Directors joined the Bell Technology Center and Southeast Community Development Center (SCDC) for a tour, including the SCDC mobile digital learning lab (left to right): Barbara O'Connor; Rich Motta; Carol Whiteside; Darrell Stewart; Lloyd Levine; Emma Hernadez; Cesar Zaldivar-Motts; Jim Kirkland; and Rachelle Chong.



Sacramento County Supervisor Phil Serna, Sacramento City Councilmember Steve Hansen, and Sacramento City Unified School District Board Member Jay Hansen joined forces in a Strategic Partnership with Valley Vision (VV) and CETF to promote Neighborhood Transformation in the attendance area for Leataata Floyd Elementary School (left to right): VV Senior VP Trish Kelly; CETF President and CEO Sunne Wright McPeak; Serna; S. Hansen; Mercy Housing Resident Services Manager Ashlei Hurst; J. Hansen; VV Project Manager Jodi Mulligan-Pfile.

California Advanced Services Fund: A Vital Resource for Deployment

The Legislature has adopted a goal for broadband deployment to achieve access to 98% of all households. The California Advanced Services Fund (CASF) has proven to be a vital resource for helping achieve this goal by addressing the infrastructure challenges in closing the Digital Divide for unserved and underserved areas of California.

The Legislature and CPUC established CASF in 2008 by reforming a fund to subsidize high-cost telephone service that was collecting about \$300 million annually from telephone customers and reduced the surcharges such that a total of \$315 million has been authorized for CASF over the last 7 years—resulting in tangible relief for consumers while still generating modest funds to support broadband infrastructure deployment. To date, CASF has funded 54 projects to reach 304,555 unserved and underserved households at an average CASF subsidy of \$461 per household (HH) and a total average cost of \$1,385 per HH (including private capital and federal funds). Thus, CASF has been successful in leveraging other investments and is cost-effective in comparison to the FCC Connect America Fund 2 (CAF) average subsidy in California of \$2,550 per location.

However, pending applications for CASF infrastructure grants exceed available funds and the goal of 98% broadband access has not been achieved either statewide or within each region. Based on mapping by the Governor's Broadband Task Force in 2007 and more recent work by the CPUC, CETF estimated conservatively that there was about 94% deployment then and that approximately 512,000 unserved households (that existed in 2007) in rural and remote communities would need to get high-speed Internet access to reach the 98% deployment goal. Although the CAF will support upgrades to unserved locations and CETF has negotiated public benefit commitments through corporate consolidations to reach a significant number of additional unserved HHs. CETF has determined that there still will be 85,000-100,000 unserved HHs to reach to achieve 98% deployment in all regions. Further, there are numerous communities that remain woefully underserved and not economically competitive because of the lack of high-speed Internet infrastructure.

In addition, the vast majority of tribal lands in California remain unconnected and there are 109 federally-recognized tribes in the state. Consultations of tribal leaders convened by Judge Cynthia Gomez, Tribal Advisor to the Governor, CENIC (Corporation for Educational Networks in California), and CETF confirmed a need and desire for broadband infrastructure to tribal lands to help preserve culture and heritage as well as support future well-being and prosperity.

Thus, CETF continues to advocate for additional funding for CASF as proposed in the *Internet For All Now Act*.

(Note: CETF receives no funding from CASF and has no involvement in the award of grants from CASF. CETF supports CASF as effective public policy and an essential resource to close the Digital Divide.)



CPUC Senior Analyst Broadband, Policy & Analysis Branch Rob Osborn, CETF President and CEO Sunne Wright McPeak, Former California Broadband Council Chairman Carlos Ramos, and CPUC Commissioner Catherine Sandoval testified before the Select Committee on the Digital Divide in Rural California at a legislative hearing led by Assemblyman Jim Wood.

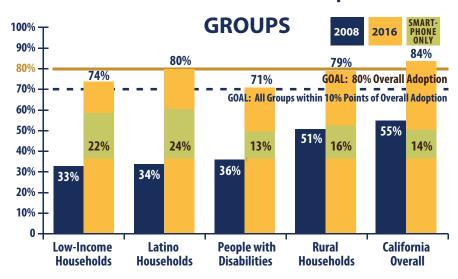
A Path of Progress: Significant Gains and Sobering Challenges

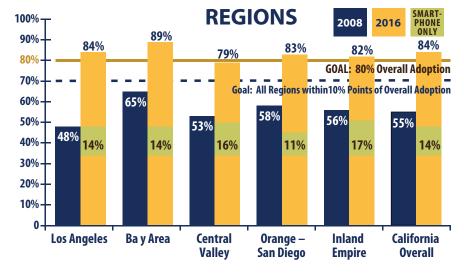
California continues along a path of steady progress towards closing the Digital Divide with significant gains in broadband adoption among all segments of the population and in every region. But, there remain sobering challenges that compel action for new public policy and additional resources.

In 2016, 84% of all California households had high-speed Internet access at home according to the Annual Survey on Broadband Adoption sponsored by CETF and conducted by the Field Research Corporation. That is a gain of 29 percentage points since 2008. And, there is more good news: low-income household adoptions increased 41 percentage points from 33% to 74% for \$40,000 per year or less (68% for those with incomes of \$22,000); Latino household adoption is up 46 percentage points from 34% to 80%; and broadband adoption by people with disabilities is up 35 percentage points (from 36% to 71%).

However, more than 5 million residents remain offline at home. Further, 14% are connected at home by only a smartphone. While smartphones are marvelous devices that allow access to an amazing amount of information on the Internet, it is difficult for students to do their homework and adults to apply for jobs or acquire workforce skills using only a smartphone. Those who have high-speed Internet access at home with only a smartphone are becoming recognized as a distinct group referred to as "underconnected" because they have limited benefits from digital technology and are becoming another category of "have-nots". The vast majority of the population—70%—who are connected at home with high-speed Internet service have multiple devices to obtain optimal benefits from digital tools.

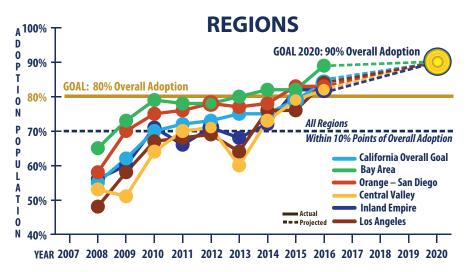
California Broadband Adoption





California Broadband Adoption



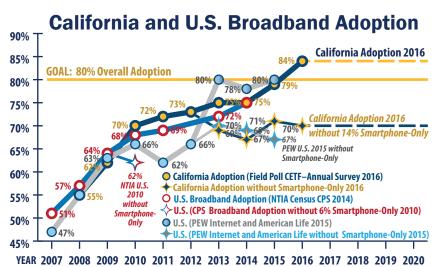


The most disadvantaged segments of the population remain unconnected at home and a higher percentage of these residents are underconnected, having only a smartphone. Consider the following pattern of broadband adoption:

The Most Disadvantaged Residents Are Unconnected and Underconnected

Segment of the Population	Connected at Home	Smartphone Only	Not Connected at Home
Statewide	84%	14%	16%
Earning Less Than \$22,000 Annually	68%	25%	32%
Spanish-Speakers	69%	30%	31%
People with Disabilities	71%	13%	29%
Adults Age 65 or Older (Seniors)	56%	5%	44%
Non-High School Graduates	63%	29%	37%

These statistics are the reasons that CETF has advanced the *Internet For All Now Act* to ensure Digital Equity for all residents.



Partners Contribute to Progress

Summary of Grant Investments

The California Emerging Technology Fund (CETF) has awarded more than \$30 million in grants to community-based organizations (CBOs) and public agencies that are regarded as "investment partners" in achieving the broadband deployment and adoption goals. CETF and grantees have provided Digital Literacy training to more than 800,000 residents and helped more than 250,000 low-income households get online.

CETF requires a substantial match, which has enabled CETF to leverage its grants by more than 4-fold, exceeding \$112 million in match to date. In 2010, CETF received \$14.3 million in 2 federal grants from the National Telecommunications and Information Administration (NTIA) to support 20 sub-awardees. The following lists show all grantees and the amount of each grant. Please visit the CETF website for additional information about each grantee.

CETF grantees must produce specific deliverables and outcomes set forth in Grant Agreements. CETF monitors progress through Quarterly Reports, Annual Reviews (on site), Learning Communities, and Final Reports. CETF as an "investment partner" engages, informs, monitors, assists, and helps grantees correct course when needed—all critical factors in reaching success. The Grantee Performance Charts show progress to date for all grantees in major outcome categories.

CETF 1.0 Grantee Partner	Amount
21st Century Communities	\$60,000
Casa Familiar, CD Tech, Los Angeles Housing Partnership, Inc.,	
Mission Economic Development	
Corporation, New Economics for	
Women, Self-Help Enterprises	
2-1-1 LA	\$100,000
Alliance for Technology Access	\$10,000
Amador-Tuolumne	\$250,000
Community Resources, Inc.	, _, , , , , , ,
California Dental	\$25,000
Association Foundation	,
California Resources and Training	\$287,000
California Black Chamber of	
Commerce Foundation, California	
Hispanic Chamber of Commerce	
Foundation, Asian Business Center	
California State University (CSU)	\$750,000
Foundation	
California State University East Bay	\$20,000
California Telehealth Network (CTN)	\$3,435,837
(FCC Rural Pilot and Sustainability)	
California Telehealth Network Direct Po	ayments \$425,567
(Operating Seed Capital)	Grant \$700,000
Center for a New Orange County	\$50,000
Center for Accessible Technology	\$455,000
Centro Latino for Literacy	\$300,000
Chico State University Foundation	\$250,000
(for Northeastern California	
Connect matched by	
The McConnell Foundation)	
Chico State University Foundation	\$250,000
(for Upstate California Connect)	
City of Firebaugh*	\$633,000
Community Christian College	\$153,000
Community Development	\$750,000
Technologies Center	

^{*} EmpowerNet California Partner

Community Foundation for	\$5,000
Monterey County	
Community Partners	\$250,000
California Community Technology Policy Group, BroadBand Institute	
of California	
Computers for Youth	\$666,000
Connected Nation	\$50,000
Contra Costa Economic Partnership	\$5,000
Desert Mountain	\$110,000
Resource Conservation and	
Development Council	*== 0 000
El Concilio of San Mateo County	\$750,000
EmpowerNet California*	\$250,000
FirstMile.US	\$10,000
Goodwill Industries of San Francisco, San Mateo and Marin Counties*	\$600,000
Humboldt State University	\$250,000
Foundation (matched by	
Humboldt Area Foundation)	
Latino Community Foundation	\$25,000
LINK Americas Foundation	\$100,000
Little Tokyo Service Center	\$250,000
Community Development	
Corporation	
Mission Language and	\$150,000
Vocational School*	
Non-Profit Housing	\$100,000
Association of Northern California	
Oakland Technology Exchange West	\$300,000
Fiscal Agent: Marcus Foster Institute	
OCCUR*	\$600,000
One Economy Corporation	\$1,400,000
Palo Alto Institute for Research	\$25,000
and Education	>,->0
Public Policy Institute of California	\$290,000
San Bernardino Economic	\$5,000
Development Agency	,,,,,,,,,,

San Diego Futures Foundation	\$450,000
Sierra Economic	\$250,000
Development Corporation	
Southeast Community	\$486,000
Development Corporation	
Tech Soup	\$500,000
The ACME Network	\$680,000
The Children's Partnership Development	\$415,000
(for School2Home) Implementation	\$369,300
Fiscal Agent: Tides Center	
The Salvation Army	\$100,000
The Stride Center*	\$620,000
University of California, Merced	\$190,000
University of California, Office of	\$244,163
the President, UC Davis (CTN)	
Valley Vision	\$5,000
Venice Arts	\$140,000
West Contra Costa	\$20,000
Unified School District	
World Institute on Disability - A-Team	\$380,000
Alliance for Technology Access,	
Center for Accessible Technology,	
World Institute on Disability	
YMCA of Greater Long Beach	\$550,200
YMCA of the East Bay	\$520,000
(for Building Blocks for Kids)	
Youth Policy Institute	\$292,000

CETF 2.0 Grantee Partner	Amount	
Broadband Awareness and Adoption		
2-1-1 California/United Ways of California	\$1,810,000	
Access Now	\$77,800	
Center for Accessible Technology.	\$593,955	
Chicana/Latina Foundation	\$602,348	
Dewey Square Group	\$1,360,000	

Latino Community Foundation	\$850,000
Radio Bilingüe	\$900,000
Social Interest Solutions	\$1,699,999
Access to Careers in Techno	ology
California Resources and Training	\$770,000
Caminos Pathways	\$292,341
Chrysalis	\$335,306
EmpowerNet California	\$360,000
Goodwill Industries of San Francisco, San Mateo, and Marin Counties	\$476,000
Mission Economic Development Agency	\$122,659
OCCUR	\$150,000
San Diego Futures Foundation	\$1,945,000
Southeast Community Development Corporation	\$389,953
The ACME Network	\$1,150,000
The Stride Center	\$1,219,900
Youth Radio	\$147,983

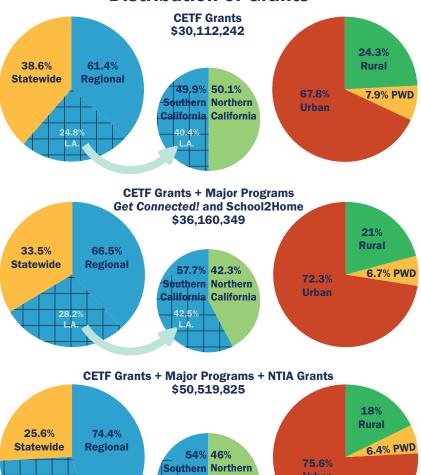
CETF 3.0 Grantee Partner	Amount
2-1-1 California/United Ways of California	\$600,000
Able-Disabled Advocacy	\$525,000
Building Blocks for Kids (YMCA East Bay and Tides Center)	\$76,000
C2C EveryoneOn	\$100,000
California Foundation for Independent Living Centers	\$330,000
California State University Monterey Bay	\$75,000
Community Centers, Inc.	\$100,000
ConnectHome Fresno- Fresno Housing Authority	\$50,000
Connect Home Los Angeles-Housing Authority of the City of Los Angeles	\$50,000
-	

Economic Development Collaborative Ventura County	\$5,000
Eden Housing	\$100,000
Families in Schools	\$49,800
Fresno State University Foundation (San Joaquin Valley Partnership)	\$600,000
Fresno State University Foundation (Fresno County Rural Ag Pilot)	\$50,000
iFoster	\$300,000
Jewish Vocational Services	\$185,000
Kids Progress, Inc. (Housing Authority of the City of Los Angeles in partnership with Southeast Community Development Corporation and ReliaTech)	\$307,000
Korean Churches for Community Development	\$100,000
LA Cleantech Incubator (OurCycle LA)	\$133,586
Latino Community Foundation, Chicana Latina Foundation	\$400,000
Manchester Community Technologies, Inc.	\$72,000
Mission Economic Development Corporation	\$150,000
National Hispanic Media Coalition	\$150,000
Oakland Technology Exchange West	\$245,000
Radio Bilingüe	\$300,000
Southeast Community Development Corporation	\$250,000
Tahoe Prosperity Center	\$5,000
The Stride Center	\$245,000
THINK Together	\$36,000
Valley Vision (Yolo County Rural Ag Pilot)	\$50,000
West Contra Costa Unified School District	\$20,000
YMCA of Greater Long Beach (+ 5 Partners)	\$869,500
Youth Policy Institute	\$300,000

Grantees Meet and Exceed Performance Goals

Grantee Performance Progress Through June 2016 Thousands of CETF Grantee Performance is updated as grants are completed. **Outcomes** See the CETF website for Final Reports on accomplishments and outcomes for individual grants. 1,000 103% 800 105% 600 400 129% 200 97% **Household Adoption TOTAL PEOPLE** Youth* Trained Adults* Trained TRAINED **Digital Literacy Digital Literacy** People* Trained 148% for Goal Actual Workforce * Included in TOTAL PEOPLE TRAINED **59**% Small* **Businesses** Trained **97**% Youth* **Trained** Digital Literacy

Distribution of Grants





Note: All CETF grantees are required to address accessibility and incorporate outreach to people with disabilities.

20

40

Thousands of Outcomes

60

80

100

0



California Superintendent of Public Instruction Tom Torlakson kicked off the 2016 School2Home Leadership Academy.

School2Home 10 Core Components

- 1 Assessment, Planning and School Leadership
- 2 Technology Bundles for Students and Teachers
- 3 Teacher Professional Development
- **4** Teacher Coaching and Mentoring
- **5** Parent Engagement and Education
- 6 Student Tech Experts Development
- **7** Online Resources
- **8** Learning Academies
- **9** Affordable Home Broadband
- **©** Evaluation

Spotlight on School2Home

Closing the Achievement Gap and Digital Divide

Technology is an essential tool to compete in the global economy. All students should be able to acquire the skills to use computing devices and navigate the Internet to succeed in the workforce and enjoy a wide range of other opportunities. Imagine trying to gather research information, write a report, or prepare a statistical graph without a computer or Internet access—unfortunately, that is the situation for millions of students in low-performing schools. School2Home provides middle school students and their families in low-income neighborhoods with access to technology that will help them achieve their highest potential and keep up with students in higher-income communities. School2Home aims to close both the Achievement Gap and the Digital Divide. CETF works with school leaders to successfully integrate computing and broadband technologies into teaching and learning with deep parent engagement—transforming the culture of the school so that students significantly improve their academic performance.

School2Home has 10 Core Components based on research and experience about "what works" to turn around low-performing schools and optimize the benefits of technology in education. A hallmark of School2Home is training parents to use the school-issued computing devices that go home with the students to check on homework assignments and grades as well as communicate with teachers (even if they don't speak the same languages). In this sense, the technology enables parents to be more connected with their child's learning and empowers them to hold schools accountable for better results. The Field Poll confirms the importance of parents being connected at home, showing that 84% of all parents and 80% of low-income parents with high-speed Internet access use the technology to assist their children with schoolwork.

Spotlight on School2Home



for the 21st century, equity will require digital access and digital literacy. School2Home is delivering both. It is sending a powerful message to low-income kids and their families—through their schools—that the world of information and knowledge is not only within their grasp, it's theirs to shape their minds and hearts. 77

Delaine Eastin Former California Superintendent of Public Instruction



UCLA Professor of Education and Director of the Center for the Study of School Transformation Dr. Pedro Noguera collaborated at the 2016 School2Home Leadership Academy with OUSD School Board Member Jumoke Hinton Hodge (right), OUSD West Oakland Middle School Vice Principal Cheyenne Pronga (second from left), and School2Home Program Manager Ann Kruze (left).

CETF currently is partnering with 12 districts and 30 schools to implement School2Home, which always is tailored to district and school priorities and incorporated into other existing school-improvement initiatives. Major intermediary partners for School2Home include: Partnership for Los Angeles Schools; LA's Promise; Youth Policy Institute; Families In Schools; OTX West; Valley Vision; and San Mateo County Office of Education. Several districts are planning to expand School2Home in the coming year: Winters Joint Unified School District is transitioning to a 1:1 studentto-device program throughout the district; San Bernardino City Unified School District is implementing School2Home in 5 middle schools after partnering with CETF last year to deploy 5,000 Internetenabled devices to students in all grades without home broadband and train their parents; and Jefferson Elementary School District in San Mateo County is implementing School2Home in all 4 of their schools with middle grades.

Independent evaluations show great promise for the School2Home approach. Once the program is fully implemented in all grades in a school with fidelity to the 10 Core Components, student achievement begins to improve faster than in cohort schools in the district and statewide. And, School2Home is cost-effective at an average cost of about \$1,000 per student. This is in contrast to other middle school turn-around programs funded through federal School Improvement Grants (SIG) which average \$1,710 per student (U.S. Department of Education, Institute of Education Sciences).

School2Home evaluation is conducted by independent professional evaluators Education Support Systems (John and Ruthmary Cradler). Evaluation Reports are available online (www.School2Home.org).

School2Home Fiscal Year 2016–2017 Implementation

Los Angeles Unified School Distr	ict (Grades 6-7-9)	Studente	Teachers
Robert Louis Stevenson Middle Sch Ongoing: Cohort Grades 6, 7, 8 / 60 Partner: Partnership for Los Angel	0 Students and 10 Teachers	1,506	72
John Muir Middle School	ies schools	000	40
Ongoing: All Students		800	40
Partner: L.A.'s Promise			
James Madison Middle School		366	15
Ongoing: All Students			
Partner: Kindle The Passion Acade	emy		
Edwin Markham Middle School		1,025	60
Year 1: Cohort Grade 6 / 80 Stude			
Partner: Partnership for Los Angel	ies schools	(50	20
Mark Twain Middle School Year 1: Cohort Grade 6 / 180 Stud	dents and 30 Teachers	650	30
San Fernando Institute for Applied		389	20
Ongoing: All Students	ivicuia	309	20
Partner: Youth Policy Institute			
Joseph LeConte Middle School		925	61
Ongoing: Cohort Grade 6 / 60 Stu	idents and 4 Teachers		
Partner: Youth Policy Institute			
Maclay Middle School	1.679 1	885	55
Pending, Planning / 100 Students Partner: Youth Policy Institute	and 6 Teachers		
Riverside Unified School District	(Grades 7-8)	Students	Teachers
Central Middle School	Ongoing: All Students	720	29
Chemawa Middle School			
	Ongoing: All Students	973	43
University Heights Middle School	Ongoing: All Students	815	38
Oakland Unified School District	(Grades 6, 7, 8)	Students	
West Oakland Middle School Ongoing: All Students / 198 Stude	ents and O'Teachers	224	11
Winters Joint Unified School Dist	•	Students	Teachers
Shirley Rominger Intermediate Sch Implementing: All Students / 110		270	10
Winters Middle School (Grades 6, Ongoing: All Students / 373 Stude		373	22
Winters High School (Grades 9, 10 Implementing: All Students / 483		483	24
Wolfskill Continuation School (Gr Implementing: All Students / 35 S	ades 9, 10, 11, 12)	38	3
1	5		

West Contra Costa Unified School District (Grades 7, 8)	Students	Teachers
Lovonya DeJean Middle School Ongoing: All Students	584	26
Inglewood Unified School District (Grades 7, 8)		Teachers
Crozier Middle School	625	25
Ongoing: All Students / 315 Students and 14 Teachers		
Sacramento City Unified School District (Grades K-6)	Students	Teachers
Leataata Floyd Elementary School	376	15
Ongoing: Grades 4, 5, 6 / 132 Students and 4 Teachers Partner: Valley Vision		
Bayshore Elementary School District (Grades 5, 6, 7, 8)		
Partner: San Mateo County Office of Education	Students	Teachers
Garnet J. Robertson Intermediate School	178	8
Implementing: Grades 5,6 / 43 Students and 2 Teachers		
Jefferson Elementary School District Partner: San Mateo County Office of Education	Studente	Teachers
Thomas R. Pollicita Middle School (Grades 6, 7, 8)	696	
Implementing: Grades 6,7,8/676 Students and 35 Teachers		35
Benjamin Franklin Intermediate School (Grades 6, 7, 8)	803	30
Implementing: Grades 6,7,8/803 Students and 30 Teachers		50
Fernando Rivera Intermediate School (Grades 6, 7, 8)	484	26
Implementing: Grades 6,7,8 / 484 Students and 26 Teachers	;	
Franklin D. Roosevelt Elementary School (Grades K-6)	334	17
Implementing: Grades 5,6 / 35 Students and 4 Teachers		
San Bernardino City Unified School District		Teachers
Arrowview Middle School (Grades 6, 7, 8)	Students 1,113	Teachers 53
Arrowview Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 1,113 Students and 53 Teachers	1,113	53
Arrowview Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 1,113 Students and 53 Teachers Curtis Middle School (Grades 7, 8)		
Arrowview Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 1,113 Students and 53 Teachers Curtis Middle School (Grades 7, 8) Year 1: Grades 7, 8 / 818 Students and 41 Teachers	1,113 818	53 41
Arrowview Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 1,113 Students and 53 Teachers Curtis Middle School (Grades 7, 8)	1,113	53
Arrowview Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 1,113 Students and 53 Teachers Curtis Middle School (Grades 7, 8) Year 1: Grades 7, 8 / 818 Students and 41 Teachers Del Vallejo Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 483 Students and 30 Teachers Golden Valley Middle School (Grades 6, 7, 8)	1,113 818	53 41
Arrowview Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 1,113 Students and 53 Teachers Curtis Middle School (Grades 7, 8) Year 1: Grades 7, 8 / 818 Students and 41 Teachers Del Vallejo Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 483 Students and 30 Teachers	1,113 818 551	53 41 30
Arrowview Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 1,113 Students and 53 Teachers Curtis Middle School (Grades 7, 8) Year 1: Grades 7, 8 / 818 Students and 41 Teachers Del Vallejo Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 483 Students and 30 Teachers Golden Valley Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 818 Students and 37 Teachers Serrano Middle School (Grades 7, 8)	1,113 818 551	53 41 30
Arrowview Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 1,113 Students and 53 Teachers Curtis Middle School (Grades 7, 8) Year 1: Grades 7, 8 / 818 Students and 41 Teachers Del Vallejo Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 483 Students and 30 Teachers Golden Valley Middle School (Grades 6, 7, 8) Year 1: Grades 6, 7, 8 / 818 Students and 37 Teachers Serrano Middle School (Grades 7, 8) Year 1: Grades 7, 8 / 843 Students and 36 Teachers	1,113 818 551 818	53 41 30 37
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Spotlight on School2Home

School2Home Leadership Academy Drives Achievement

School2Home convenes a Leadership Academy each year as part of the Learning Communities Core Component. Former California Superintendent of Public Instruction Delaine Eastin serves as the master faculty member for the School2Home Leadership Academy and each School Leadership Team comes prepared to share their expertise and "lessons learned" with other partners. In 2016 other prominent presenters at the School2Home Leadership Academy included: California Superintendent of Public Instruction Tom Torlakson; Dr. Frances Gipson, Chief Academic Officer of Los Angeles Unified School District (LAUSD); Dr. Sharon Robinson, Chief of Staff for LAUSD Board Member Dr. George McKenna; Dr. Vincent Matthews, State Trustee and Superintendent of Inglewood Unified School District; Dr. Pedro Noguera, Professor of Education and Director of the Center for the Study of School Transformation, University of California, Los Angeles; Oscar Cruz, CEO of Families In Schools; Jumoke Hinton Hodge, Board Member of Oakland Unified School District; and The Honorable Steve Bradford, Former Assemblymember and Chairman of the Committee on Utilities and Commerce. Each School Leadership Team completed an Action Plan during the Leadership Academy to address implementation challenges at their school, affirming the power of Learning Communities in fostering high-performing organizations.









Presenters at the 2016 School2Home Leadership Academy gave insightful guidance on achieving academic excellence (left to right): LAUSD Chief Academic Officer and Chair of the Instructional Technology Initiative Taskforce Dr. Frances Gipson; LAUSD Chief of Staff for Board Member Dr. George McKenna, Dr. Sharon Robinson; State Trustee and IUSD Superintendent Dr. Vincent Matthews; and Families In Schools CEO Oscar Cruz.



The School2Home focus to close the Achievement Gap and Digital Divide builds best practices to provide a comprehensive framework for turning around schools and improving academic performance that integrates technology into the teaching and learning with deep parent engagement.



CETF honored School2Home partners with a banner for each school.

School Leaders Share Expertise to Improve Academic Achievement



LAUSD Muir Middle School and LA's Promise School Leadership Team: Liliana Vasquez; Monica Cardona; Melissa Castro; Martha Cabrera: Eileen Hiss.



RUSD and Central Middle School Leadership Teams: Steven Harwood; Maria Gonzales; Scot Porter; Maddison Holcomb.



IUSD Crozier Middle School Leadership Team: Ang Rush; Tambera Thompson; Principal LaRoyce Murphy; Efren Torres (bottom left); Tony Duncan (bottom center).



RUSD University Heights Middle School Leadership Team: Principal Coleman Kells; Katie Grimble; Consuelo Frausto.



RUSD Chemawa Middle School Leadership Team: Ashley Carlos; Jacquelyne Vaca; Principal Raul Ayala.



WCCUSD DeJean Middle School Leadership Team: Tiffany Neal; Douglas Marques; Principal Will McGee (center); Teresa Jenkins; Ana Castro; Leonard Walden.

School Leaders Share Expertise to Improve Academic Achievement





Winters Middle School Leadership Team: Kristie Oates; Raquel Ulloa-Mendoza; (not pictured Assistant Principal Micah Studer).



LAUSD Madison Middle School Leadership Team: Louis Tapia; Gene Wong; (not pictured Principal Estelle Baptiste).



SBCUSD Accountability and Educational Technology Team: Raj Ali; Nancy Pic; Director Barbara Richardson (right).



OUSD Frick Middle School Leadership Team: Karen Slider; Principal Jeffrey Taylor; Dewanna Slaughter.

Leadership Teams Pictured in the Stand and Deliver! Mosaic (by rows, starting top left)

SCUSD Leataata Floyd Elementary School Leadership Team: Principal Eric Chapman; Jodi Mulligan-Pfile; Ashlei Hurst. San Mateo County Office of Education: Instructional Coordinator Kathryn Marinos. Bayshore Elementary School District and Robertson Intermediate School Leadership Team: Superintendent Audra Pittman; Principal Sergio Nesterov; Rafael Xolocotzi; Edward Arias. Jefferson Elementary School District and Pollicita Middle, Rivera Intermediate, Franklin Intermediate, and Roosevelt Elementary Schools: Technology Director Toni Barone; Principal Ben Turner; Principal Dina Conti; Principal James Parrish; Principal Dianne Lakatta. Youth Policy Institute Leadership Team: Diana Rodriguez; Carmen Gutierrez; Matthew Llamas.

out their action plans

Leadership Academy.

developed at the School2Home

Spotlight on School2Home

School2Home Supports Implementation of Common Core Standards

California's implementation of the Common Core Standards includes participation in the Smarter Balanced Assessment Consortium (SBAC), a national initiative involving students taking academic assessments online with results available to parents. This requires that students have access to computing devices in classrooms that are broadband-enabled as facilitated by School2Home. An important opportunity as a result of SBAC is training parents how to obtain and interpret student assessment data online. School2Home advances the intent of the SBAC process.

School2Home Is the Centerpiece of Neighborhood Transformation

Residents in low-income neighborhoods also often are confronted with an inter-related set of factors and forces—a "wall of poverty"—that constitute a huge barrier to overcome and escape. Some of these factors get in the way of children being able to succeed in school and are not the direct responsibility of schools. However, the "wall of poverty" can be tackled and shattered by counties and cities aligning their existing resources and delivering human services through multi-disciplined Integrated Services Teams organized around school attendance areas. The Integrated Services Teams must focus on and be accountable for moving families and their children out of poverty and into self-sufficiency—with measurable outcomes for a better future. Obviously, getting a good education, including the ability to use technology and acquire digital skills, is fundamental to escaping poverty and becoming self-sufficient. Thus, School2Home also is the "centerpiece" of a strategy referred to as Neighborhood Transformation, which fully embraces and incorporates Digital Inclusion. CETF is pursuing Neighborhood Transformation to complement and augment School2Home with a group of visionary local elected officials and pacesetter counties and cities. Neighborhood Transformation is a major priority initiative categorized as a "Strategic Partnership" as part of the 5 Overarching Strategies (see page 16).



LAUSD Board Member Monica Garcia and School2Home Executive Co-Manager Agustin Urgiles celebrated LAUSD adopting a resolution supporting the CETF position on Broadband Lifeline.



CETF was recognized by CUE at its 2016 National Conference for being a champion in using technology in education. CUE provided professional assistance and peer review in the design of School2Home Teacher Professional Development.

Spotlight on Local Government Roundtable

Local Government Leaders Focus on Closing the Digital Divide

Local Government Leadership is a powerful force in accelerating the pace of closing the Digital Divide. That is why CETF organized the Local Government Roundtable in collaboration with the California State Association of Counties (CSAC), League of California Cities (LCC), and Rural County Representatives of California (RCRC), with support from Valley Vision. The Local Government Roundtable was first convened in October 2013 in Sacramento and again in April 2015 in the Inland Empire in Riverside, at which there were 64 participants, including county and city elected and appointed officials, State policymakers, and other broadband stakeholders.

The purpose of the Local Government Roundtable is:

- Engage a "critical mass" of key Local Government Officials throughout California to become active champions in closing the Digital Divide and promoting Digital Inclusion.
- Exchange information about the key roles of Local Government Officials in closing the Digital Divide: Policy Leader; Planner; Regulator; Consumer; Provider of Services.
- Identify opportunities and strategies to accelerate broadband deployment and adoption by encouraging local jurisdictions to become "Smart Community" pacesetters.

The Local Government Roundtable findings and conclusions were presented to the California Broadband Council:

• There is no substitute for leadership and cooperation among Local Governments, Regional Consortia, and State Government. There must be sustained interaction to achieve the broadband goals of 98% deployment and 80% adoption. The California Broadband Council should regularly consult CSAC, LCC and RCRC.









Director of UCR Center for Sustainble Suburban Development Dr. Ron Loveridge told the 2015 Local Government Roundtable that the Digital Divide is a marker of greater divides; and addressing it addresses other divides. It is about today's poverty and inequality, and is the issue of our time.



Yolo County Supervisor Don Saylor briefed Roundtable participants on the Yolo Broadband Strategic Plan, noting that the FCC changed the broadband threshold goals to 25 Mbps down and 3 Mbps up, defining most of Yolo County and its cities as underserved.





- The California Broadband Council can accelerate broadband deployment by providing a forum to coordinate the work of CENIC, California Telehealth Network, and FirstNet.
- Local Governments and Regional Consortia need more assistance and cooperation from State Agencies, such as Department of Transportation and Department of General Services, to leverage State assets (rights-of-way, buildings, towers, purchasing) for cost-effective broadband deployment. Leadership from the Department of Technology is greatly appreciated. State Agencies need to adopt policies and procedures to support broadband infrastructure deployment, such as a "dig once" rule and incorporation of broadband into major infrastructure projects.
- Additional CASF funding will be needed to support broadband deployment in rural unserved and underserved communities to achieve the 98% goal. State Government Officials need to understand that last-mile projects require cost-effective middle-mile infrastructure, and their leadership is needed to streamline current rules and foster cooperation from incumbent carriers.
- Regional Consortia need to be supported with greater participation from Local Government Officials. Many counties and cities are doing innovative broadband deployment and adoption projects and there is a need to share "best practices" among local jurisdictions.

The 2015 Local Government Roundtable also provided a forum to showcase the work of the Inland Empire Regional Broadband Consortium (IERBC) and to focus on the collaboration between IERBC and the Inland Empire Economic Partnership as an example of regional economic stewardship.

(Summaries of the Local Government Roundtables are posted on the CETF website.)









San Bernardino City Unified School District President Michael Gallo stated that Local Government Officials—schools, cities, counties—and civic leaders must have a shared vision with a plan of action.



Trinity County Supervisor Judy Morris listened as Tebema County Supervisor Dennis Garton remarked that the agricultural industry is vital to California's economy and access to broadband would be a huge boost.





Local Government Leaders Speak Out as Broadband Champions

CALIFORNIA STATE ASSOCIATION OF COUNTIES (CSAC)

Vito Chiesa

Stanislaus County Supervisor - CSAC Past President

What can we do to ensure that counties have the necessary broadband infrastructure they need to be economically competitive? First and most importantly, it is necessary for counties to understand that broadband is a key economic development issue. It should be considered an important piece of a county's infrastructure, just as important as efficient roadways, dependable public safety, and reliable utilities such as electricity, water and waste water. The availability of broadband may very well be the difference for a county to attract, retain and help in the expansion of a business. Counties in the San Joaquin Valley need to grasp broadband as a potential economic engine in order to improve the economic competitiveness of the San Joaquin Valley.



RURAL COUNTY REPRESENTATIVES OF CALIFORNIA (RCRC)

Bob Williams

Tehama County Supervisor - RCRC Vice President

How can small regional Internet Service Providers better work with rural communities to provide improved broadband connectivity? Small providers can best work with rurals by understanding where the needs are within the community and by working with officials to provide simplified access to facilities, rights of way and working through the permit process. Small regional providers are working with Tehama County to identify existing towers that can be used to provide broadband connectivity. This can happen in other counties.













LEAGUE OF CALIFORNIA CITIES (LCC)

Dennis Michael

City of Rancho Cucamonga Mayor - LCC President

How can broadband deployment improve the quality of life of residents and how can elected leaders accelerate this deployment? The Local Government Roundtable was a fantastic reminder about the importance of broadband access for all citizens and the critical role that local governments play in facilitating access. In creating a world class community to live, work, play and educate, broadband access is critical for improving the quality of life. Whether it's providing a competitive edge in the workforce, helping students learn, or making everyday activities such as paying bills or booking a vacation more convenient, the ability to access the Internet has become a fundamental necessity. Elected leaders can accelerate this deployment by supporting policies that ensure broadband access for everyone.



LEAGUE OF CALIFORNIA CITIES (LCC)

Mike Kasperzak

City of Mountain View Councilmember - LCC Past President

What can City Officials do to ensure that there is sufficient bandwidth in urban areas? Urban areas are in need of improved high-speed Internet access to provide better public services, and it is not clear that market forces alone will take care of it. Even cities in the middle of technology innovation can do so much more with broadband applications. If municipalities want fiber, then they will have to update their regulatory framework. We are working with other cities to ask what their concerns are and how we can all be consistent. City Officials need to work with the League of California Cities to elevate broadband deployment and adoption as a State priority and provide the essential leadership to close the Digital Divide.













Local Government Leaders Speak Out as Broadband Champions

Dave Finigan Del Norte County Supervisor CSAC Past President and RCRC Past President

How can Local Government Officials support the building of sustainable broadband infrastructure throughout California? While we need State and federal action and assistance to close the Digital Divide, it is a matter of priorities and political will. Other states, such as New York, are making broadband a higher priority and investing state funds. Local Government Officials need to take a look in the mirror and renew our own efforts. Local Government Officials need to work together more purposefully and strategically in collaboration with the Regional Consortia to get what we need for our local jurisdictions. It is helpful to share best practices such as the experiences and lessons learned on Digital 395 to apply to Digital 299. Local Governments also need to work on adopting policies, ordinances, and streamlined permitting practices. County and city administrators and public works departments must see broadband as a "must" in their responsibilities. The Roundtable provides a worthwhile forum for Local Government Officials to join forces.



Supervisor Dave Finnegan co-led both the 2013 and 2015 Local Government Roundtables.



Inyo County Administrative Officer Kevin Karunchio explained at the Local Government Roundtable that Digital 395 can spur economic development.



The 2015 Local Government Roundtable was held in the City of Riverside in the Inland Empire.











Legislators Lead on Addressing the Digital Divide



Assemblymember Jim Wood led and responded to testimony before the Select Committee on the Digital Divide in Rural California.

66 Broadband access is critical to our daily life. I authored Senate Bill 745 to help bridge the Digital Divide in California. This critical measure extends funding for broadband infrastructure in a public housing building and improves accountability and the reporting of existing programs by the California Public Utilities Commission. I will continue to fight for more opportunities to close the gap so that our children can excel academically and our families can lead more productive lives through technology access and resources. 77







Assemblymember Ed Chau responded to testimony before the Select Committee on the Digital Divide in Rural California at a legislative hearing led by Assemblymember Iim Wood.

44 Too many Californians—people of color, people living in rural areas, and people living in areas with high poverty rates—don't have access to a utility that many people in this state take for granted. Legislation is needed to help our state meet its previously-set goal to provide high-speed service to 98% of Californians. We must ensure that the people living in unserved and underserved areas will finally have access to broadband, and receive all the education, healthcare, and business growth benefits that accompany this access.

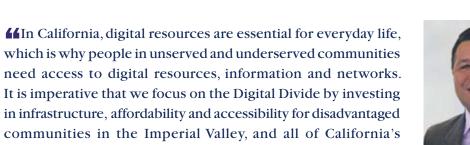
Assemblymember Mark Stone Chair, Assembly Judiciary Committee



Legislators Lead on Addressing the Digital Divide

66 As the Mayor of Fresno in the 1990s, I witnessed the huge leap forward our city experienced as Internet access and use flourished. A skilled workforce, trained to use the tools of the 21st Century, is key for big and small enterprises alike. I appreciate the work of CETF and others to promote Internet access, and their commitment to expand training skills for everyone.

Assemblymember Jim Patterson Vice Chair, Assembly Utilities and Commerce Committee



Assemblymember Eduardo Garcia Chair, Assembly Committee on Jobs, Economic Development, and the Economy

66 My goal has been to demonstrate that what's been collected for CASF is not just for upgrading households so they have faster broadband, but to make sure that the infrastructure funds are for underserved communities and the working poor to improve their quality of life. 77

Assemblymember Brian Dahle Member, Assembly Utilities and Commerce Committee









Assemblymember Bill Dodd discussed the need for high-speed Internet access in his district with CETF Treasurer Rich Motta, President and CEO Sunne Wright McPeak, and Senior Vice President Susan Walters.



Former Chairman of the Assembly Committee on Utilities and Commerce The Honorable Steve Bradford addressed the 2016 School2Home Leadership Academy.

rural population. 77

Internet For All Now—A 21st Century Civil Right



Mobilization for Action

The California Emerging Technology Fund (CETF) launched the Internet For All Now education and mobilization program in 2014 as a unifying theme with which to coordinate public input to regulators about proceedings for affordable broadband and corporate consolidations pending before the FCC and CPUC. In 2012, CETF concluded that the overall broadband goals of 98% deployment and 80% adoption in California were not likely to be achieved by 2017 without more aggressive public policy and additional resources. CETF further decided that it would need to participate actively before regulators, particularly the FCC, in order to secure widelyavailable affordable broadband rates, given that cost is one of the major barriers to broadband adoption. This conclusion was reached only after several years of discussions with broadband providers to explore the feasibility of them voluntarily offering affordable rates in California for low-income residents participating in Digital Literacy programs. CETF decided that without voluntary affordable rates and workable adoption programs being offered by providers that it would be necessary to participate as a legal party in regulatory proceedings and to mobilize a respected coalition to secure action.

As an example of the impact of *Internet For All Now* in helping secure affordable broadband, more than 137 key leaders and organizations endorsed the CETF position on Broadband Lifeline and more than 70,000 individuals participated in social media to send more than 250,000 emails to the FCC in support of the CETF recommendations. The FCC acted in March 2016 to establish a Broadband Lifeline Program.

Tangible Public Benefits

As a legal party in corporate consolidation applications pending before the FCC and CPUC, CETF negotiated agreements with Frontier Communications, Inc. and Charter Communications, Inc. for significant public benefits, including deployment of broadband infrastructure to 257,000 unserved households, increased broadband adoption by 550,000 low-income households, and installation of 125 public WiFi hotspots. In addition, Frontier will provide 50,000 Internet-enabled devices and \$3 million for community-based organizations to assist with broadband adoption in low-income neighborhoods. And, Charter will donate \$32.5 million to CETF to support School2Home and other broadband adoption programs. Both companies also agreed to offer affordable broadband rates for low-income customers in their service territories.

Internet For All Now Act

Notwithstanding these achievements in increasing broadband deployment and adoption, it is clear that there still will be a gap to bridge in closing the Digital Divide. Thus, CETF is working with a broad coalition of civic leaders and community organizations to pass legislation to continue funding for the California Advanced Service Fund and establish important policies for the State of California. This legislative proposal is called the *Internet For All Now Act* and will provide vital resources for both broadband deployment and adoption to finish the job of closing the Digital Divide. CETF and partners are pursuing the *Internet For All Now Act* because high-speed Internet access is essential in today's digital world to ensure equity and opportunity for all residents—it is a 21st Century Civil Right.

Community Leaders Call for Action: Internet For All Now





















CETF Leverages Seed Capital: Summary of Financial Status

The California Emerging Technology Fund is committed to efficient and effective use of the Seed Capital which highly leverages other resources: FOCUS – ACTION – RESULTS

Summary of Financial Status	Through Fiscal Year 2015-2016 (Cumulative to June 30, 2016)
Seed Capital Received from AT&T and Verizon:	\$60,000,000
Interest and Earned Income:	4,200,591
Additional Contributions for Specific Programs:	1,363,569
Government Grants Received (ARRA NTIA)	14,359,476
CETF Grants Approved To Date: (June 2016)	30,112,482
CETF Grant Payments To Date: (June 2016)	28,680,832
CETF Grant Outstanding Obligations:	1,431,650
Leveraged Match Funding for CETF Grants:	112,057,168
Total Expenditures - Statement of Activities:	73,640,629
 Program Expenditures (Including Grants)): 69,428,418 (95%)
— Administrative Support Costs:	4,212,211 (5%)
Non-Grant Expenditures - Statement of Activities	: 25,553,747
— Program Expenditures:	21,341,536 (83%)
— Administrative Support Costs:	4,212,211 (17%)
School2Home Expenditures To Date: (June 2016)	5,332,167
Total Assets - Total Liabilities and Equities:	\$8,277,674

Audited Financial Statements are posted on the CETF website.

The CETF Strategic Action Plan aims to close the Digital Divide by achieving 98% deployment and 80% adoption within a decade of beginning operations. The CETF Board of Directors planned to achieve success by 2017, expending all Seed Capital plus some earnings to fund operations. Thus, the Total Assets and Total Liabilities and Equities have declined each Fiscal Year. The overall goal for the portfolio is to leverage the Seed Capital 4-fold by achieving a 1:3 match by other resources. To date, CETF has achieved and exceeded that goal with a 1:3.7 cash match. CETF also operates relatively efficiently in comparison to other charitable organizations, with cumulative expenditures at 95% in Program and 5% in Support activities according to independent audits.



California Foundation for Independent Living Centers (CFILO) Youth Organizing! Disabled and Proud participants attended a CETF Roundtable in Sacramento.



CETF President and CEO Sunne Wright McPeak commended the trailblazing leadership of the Community Technology Network.

In addition to the original Seed Capital, the following partners provided funding for developing and implementing School2Home: Google, AT&T, Comcast, Verizon, and IBM.

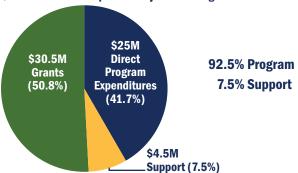
Distribution of Grants by Categories

Category of Grant	Amount	Percentage
Demand Aggregation for Rural Deployment	\$1,440,000	4.8%
Telehealth-Telemedicine	\$4,620,000	15.3%
Digital Literacy	\$2,564,700	8.5%
Workforce Preparation	\$4,542,320	15.1%
Computer Recycling and Refurbishing	\$1,383,586	4.6%
Accessibility for People with Disabilities	\$1,595,000	5.3%
Small Business Support	\$273,800	1.0%
Public Awareness and Education	\$160,000	0.5%
Public Policy Development and Support	\$790,000	2.6%
Education and School2Home	\$2,386,300	7.9%
Smart Housing	\$2,017,000	6.7%
Neighborhood Transformation	\$2,119,000	7.0%
Broadband Adoption	\$6,220,776	20.7%
Total (Through FY15-16 June 30, 2016)	\$30,112,482	100.0%

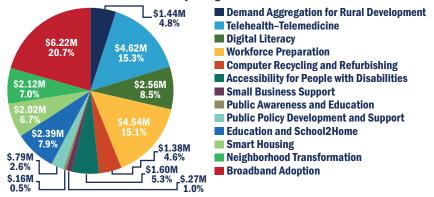
Allocation of Program Expenditures by 5 Overarching Strategies

5 Overaching Strategies—Program Expenditures	Amount	Percentage
Civic Leader Engagement	\$3,745,373	15.1%
Annual Reports and Annual Surveys	\$1,131,897	4.6%
Civic Leader Engagement	\$1,484,677	6.0%
Deployment Support and Regional Consortia	\$1,128,799	4.5%
Venture Philanthropy Grantmaking	\$4,840,231	19.5%
Public Policy	\$9,690,123	39.1%
Digital Literacy	\$549,329	2.2%
School2Home	\$6,058,310	24.5%
California Telehealth Network	\$681,603	2.7%
Smart Housing	\$821,435	3.3%
Other Public Policy	\$1,579,466	6.4%
Public Awareness and Education	\$4,340,690	17.5%
Strategic Partnerships	\$940,905	3.8%
Other Direct Program Expenditures	\$1,235,117	5.0%
Total (Through FY15-16 June 30, 2016)	\$24,792,439	100.0%

\$60 Million Seed Capital - Projected through June 2017



\$30.1 Million Grants — Distribution by Categories



\$24.8 Million Program Expenditures — 5 Overarching Strategies



California Leaders Advance Digital Inclusion



At the California Broadband Council meeting in February 2016, members examined funding opportunities, requirements, rules and agency colloboration with a focus on deployment in unserved and underserved areas.



Tellus Venture Associates President Stephen Blum, California Cable & Telecommunications Association President Carolyn McIntyre, Frontier Communications Vice President and General Manager Tressa Bader, and Fire2Wire Vice President William Moreno presented at the February 2016 California Broadband Council meeting.



California State Library Deputy State Librarian Gerry Maginnity and California Research Bureau Director Anne Neville appeared before the California Broadband Council in February 2016.

California Broadband Council

CHAIR

Amy Tong

Interim Director, California Department of Technology State of California

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Chair of the Senate Energy, Utilities and Communications Committee State of California

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Machine 2016 survey demonstrates how much progress California has made making sure everyone has access to broadband. Today, over 84% are now online and more and more low-income households and people with disabilities are able to participate more fully in society that ever before. This is a testament to all the hard work of CETF and all of its partners statewide that believe in the hope and promise that being online provides. The data also shows that much work remains to be done. Not everyone is able to get online due to cost, training or availability. Recent mergers and watershed moments such as the federal Lifeline for Broadband program will require an unprecedented level of diligence and vigilance by all of us. We need to hold policymakers, regulators and broadband providers accountable and make sure they deliver on their promise to make broadband affordable and accessible for everyone.

Neal Albritton, CEO and Founder, Section 508 Guru.com

Michael Banner, President and CEO, Los Angeles LDC

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Louis Fox, *President and CEO*, Corporation for Education Network Initiatives in California (CENIC)

J. Gonzalez, Director of Special Projects, The ACME Network

Lucy Greco, Web Accessibility Evangelist, University of California, Berkeley

Allen Hammond, *Phil and Bobbie Sanfilippo Chair and Professor of Law, and Director of the Broadband Institute of California*, Santa Clara University

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Brenda Kempster, Chief Executive Officer, LINK Americas Foundation

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Bob Lanter, Executive Director, California Workforce Association

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Carolyn McIntyre, *President*,
California Cable & Telecommunications Association

Milo Medin, Vice President, Access Services, Google Inc.

Ali Modarres, Director and Professor of Urban Studies, University of Washington Tacoma

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Todd Scott, Vice President, Instruction, College of the Siskiyous

Russ Selken, Executive Director, Information and Educational Technology Services, Twin Rivers Unified School District

Kris Stadelman, Director, NOVA Workforce Board

Bea Stotzer, Chief Executive Officer, NEWCapital, LLC

Glen Warren, Vice President of Government Relations, California School Library Association (CSLA)

Lydia Yu, Coordinator, Health Sciences Policy & Legislation, University of California, Office of the President



FCC Commissioner Mignon Clyburn (third from right) met with CETF staff and partners (left to right): LAUSD Advisor Joel Parker; CETF President and CEO Sunne Wright McPeak; Chicana Latina Foundation Executive Director Olga Talamantes; EveryoneOn Former CEO Zach Leverenz; and CETF Special Counsel Rachelle Chong.

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Rachelle Chong, Special Counsel, Law Offices of Rachelle Chong

Acknowledgments

In addition to the grantee partners, CETF has been assisted during the last year by the following professionals: Joe Camicia (Camicia & Company, LLC) provides educational information to State policymakers and is helping advance related policy; Former California Housing and Community Development Department executives (the late) Lynn Jacobs and Cathy Creswell (Creswell Consulting) assisted with the Smart Housing Initiative and implementation of AB1299 (CASF Public Housing Account); Cris Arzate engaged leaders to support the CETF position on the FCC Broadband Lifeline Program and is assisting with the Smart Housing Initiative; Former Assemblymember and Chair of the Committee on Utilities and Commerce Lloyd Levine is helping to advance partnerships with energy utilities and foster collaboration in the Inland Empire with the University of California, Riverside, School of Public Policy Center for Broadband Policy and Digital Literacy; Elaine Carpenter is developing investment partners for School2Home; Former Senator Richard Polanco (Tres Es) is assisting CETF to promote the *Internet For All Now Act*; and this Annual Report was designed by Pam Winter.



CETF Associate Vice President Raquel Cinat attended The White House and HUD ConnectHome National Summit in Washington, D.C. HUD Secretary Julián Castro and White House officials presented information about the goals and expectations of the initiative.

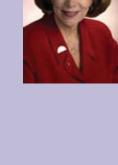
Internet For All Now—A 21st Century Civil Right

Although California is a powerhouse of technology and innovation, the Digital Divide is a persistent challenge for rural communities and low-income neighborhoods. While the state has made significant progress since 2008 in increasing home broadband use from 55% to 84% of all households, the sad news is that too many households remain stuck on the wrong side of the Digital Divide. And, the gulf between the "digital haves" and "digital have-nots" is the greatest for the most disadvantaged residents: while 16% of the overall population is not connected at home with high-speed Internet service, 32% of low-income households, 31% of Spanish-speaking families, 29% of people with disabilities, 37% of adults without a high-school diploma, and 44% of seniors remain unconnected.

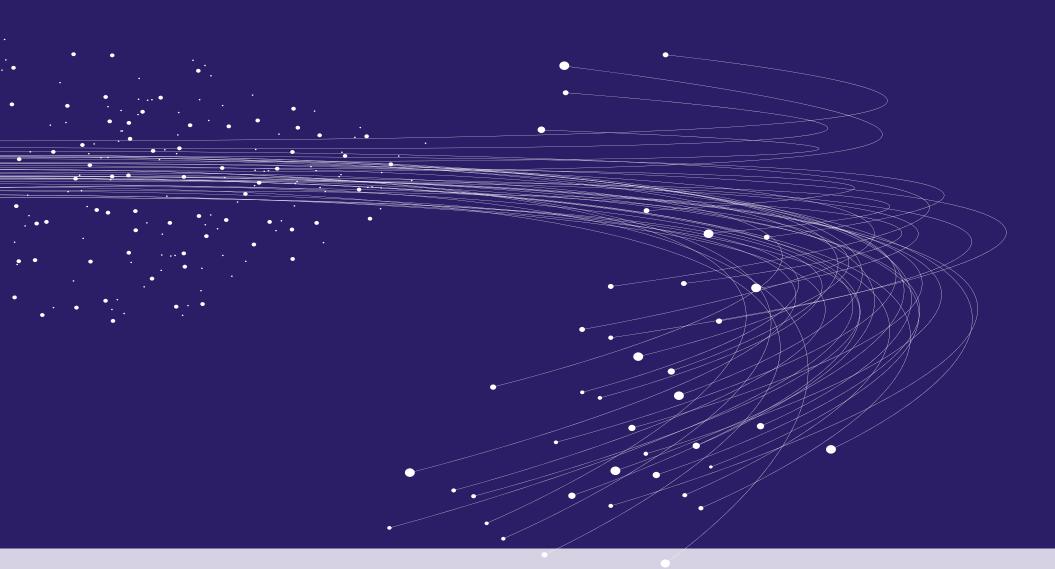
Further, higher percentages of disadvantaged residents than the general population are connected at home only with a smartphone. While smartphones are marvelous devices that enable access to an amazing amount of information online, it is difficult for a student to do homework or an adult to acquire workforce skills or apply for a job using only a smartphone. Those who are connected at home with only a smartphone are emerging as another distinct segment of the population referred to as the "underconnected" because they experience fewer benefits from the full range of digital technologies.

Residents who are unconnected or underconnected also often are confronted with an interrelated set of factors and forces that constitute a huge barrier to overcome and escape—which we call a "wall of poverty"—resulting in these households being left behind at an accelerating pace in a Digital World.

These facts are a sobering reminder that the quest to close the Digital Divide has to be an integral part of a deeper commitment by policymakers and regulators to tackle poverty and empower all Californians. That is why CETF promotes public policy to incorporate technology into education, workforce preparation, healthcare, public housing, and the delivery of government services. It also is why CETF is sponsoring the *Internet For All Now Act* to ensure appropriate public policy and adequate resources are available to achieve the goals for closing the Digital Divide of 98% deployment and 90% adoption by 2023. Given the potential for technology to provide equality in access to information, services and participation in the democracy coupled with its power to transform lives for a better future, Digital Access has become a 21st Century Civil Right. To paraphrase a well-established principle of equality, "access delayed is access denied." Thus, we call upon the Legislature and Administration to immediately approve and expeditiously implement the Internet For All Now Act for the benefit of all Californians.



Sunne Wright McPeak
President and CEO
California Emerging Technology Fund





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