

Connecting California: From Community Perspectives to Funded Projects















Part 1: Perspectives from the Community



Connie Stewart, Cal Poly Humboldt



Matthew Rantanen, Southern California
Tribal Chairmen's Association



Kevin G. Harbour, Sr., BizFed Institute















Connie Stewart Executive Director of Initiatives, Cal Poly Humboldt

















Matthew Rantanen

Director of Technology, Southern California Tribal Chairmen's Association

















Kevin G. Harbour, Sr. President, BizFed Institute















Biz FedInstitute

Defining the Voice of Business

Closing The Digital Divide => Accelerating the Process

Kevin Harbour, President – BizFed Institute & Chair – Executive Committee, Los Angeles/Orange County Regional Broadband Collaborative

Closing The Digital Divide => Accelerating the Process

- Coverage Mapping
- Middle Mile vs. Last Mile => Who's responsible
- Collaboration is Key For Acceleration
- Infrastructure, ACP, Adoption, Literacy, Devices
- Making Funding More Easily Accessible



Part 2: CA Public Policy and Funding



Kim Lewis, CENIC and GoldenStateNet



Barbara Hayes, Rural County Representatives of California















Kim Lewis Vice President of Government Relations, CENIC















CENIC is a 501(c)(3) public benefit corporation with the mission to advance education and research statewide by providing a world-class network essential for innovation, collaboration, and economic growth.

Charter Associates:

- California K-12 System
- California Community Colleges
- California State University System
- Stanford, Caltech, USC
- University of California System
- California Public Libraries
- Naval Postgraduate School

Other Members Include:

- Scientific and Cultural Institutions
- Private Colleges and Universities
- Hospitals and Specialized Medical Institutions
- Biomedical, Science, Space, & Environmental Research Organizations
- Tribal Nations



The California Research and Education Network (CalREN) 27 years of connecting California

- 8,000+ miles of optical fiber
- Members in all 58 counties connect via fiber-optic cable or leased circuits from telecom carriers
- Over 12,000 sites connect to CENIC
- Operated by a 501(c)(3)
 organization chartered and governed by its members
- Collaborates with over 800 private sector partners and contributes
 >\$100,000,000 to the CA economy



CENIC Benefits for California Institutions:

More than just a network.

CENIC's California Research and Education Network (CalREN) is a multi-tiered, high-performance network serving the majority of research and education (R&E) institutions in the state.

CalREN broadband offers CENIC member institutions supremely reliable, efficient, and cost-effective access as well as these benefits:

- Access to a state-of-the-art network
- 24/7/365 Network Operation Center
- Lower costs on circuits and equipment
- Unlimited broadband use
- Network design expertise
- Circuit procurement, activation, and support
- Fiber procurement, lighting, and support
- Federal and state subsidy assistance
- Cloud connectivity and content services
- All Internet services, including settlement-free peering & exchange
- Security services
- Scaling services to the need
- Entry into an active membership organization
- A global community of hundreds of thousands of R&E institutions

Innovation on Display



K-12 Student Testing - end-to-end support and monitoring from CENIC staff resulting in smooth testing experiences for students and teachers. California set a record when 570,745 students simultaneously took the California Assessment of Student Performance and Progress (CAASPP) test.

COVID Vaccine Research - CENIC supports researchers at our R1 institutions in California and throughout the world to be able to access and share big datasets for the development of the initial COVID-19 vaccines and for ongoing research on variants and new vaccines.



Wildfire Prevention - WIFIRE is an innovative application developed by UCSD for predicting the path and spread of wildfires. The tool collects and analyzes big datasets in real-time to create predictive analytic models and support first responders in the field.

Bridging the Divide for Sovereign Nations - supported Tribal Digital Village in obtaining broadband connectivity to enhance intra-tribal connectivity and connection to the global Internet for 20 tribal communities in Southern California.



CENIC's Engagement in Statewide Broadband Equity Efforts

Given the increased importance of broadband and shifts in how the network was being used, a heightened focus on public policy at all levels of government.

- Meetings, technology and policy documents, state and federal Plans, roundtables, and op-eds
- Western States Pact Alliance
- Broadband Infrastructure Grants (BIG/BIIG) connecting 488 individual schools
- High-Speed Broadband for Libraries Project connecting 927 library sites
- Reaching out to new communities, including healthcare, cultural institutions, museums, and tribal nations



Barbara Hayes

Chief Economic Development Officer, Rural County Representatives of California















RURAL COUNTY REPRESENTATIVES OF CALIFORNIA



- Represent 40 of California's 58 Counties
- Larger Than 28 States in Population
- Larger Than 40 States in Land Area
- Home to 15 of California's 18 National Forests
- Home to 7 of California's 9 National Parks
- Includes Main N/S and W/E Interstate Highway Systems in Western U.S.
- Advocacy, Business Development, and Economic Development Divisions
- Governed by Elected Supervisors from each County

GOLDEN STATE CONNECT AUTHORITY



- Formed Joint Powers Authority
 - 40 Member Counties
- •Program of Work Includes:
 - Broadband Strategic Planning
 - Capacity Building
 - Open-Access, Last Mile, Municipal Broadband Deployment
- Identified Financial and Operational Partners
- Key Priorities: Fiber First, Capacity,
 Broadband for All, Leverage Partnerships



HISTORIC INVESTMENT IN BROADBAND INFRASTRUCTURE

SB 156 – UNANIMOUS APPROVAL – SIGNED BY GOVERNOR JULY 2021

HISTORIC \$6 BILLION INVESTMENT

- \$3.2 Billion Middle Mile State-Owned Open Access Network
- \$2 Billion Last Mile
- \$750 Million Loan Loss Reserve
- \$50 Million Local Agency Technical Assistance



PROGRESS UPDATE – TWO YEARS LATER



Identified 10,000 Miles of Projects – Started Build in Q4 2022 in San Diego



Program Applications Invited in June 2023



Anticipate Rule-Making Complete Q3 2023



 Funded and Awarded – 39 of 40 Golden State **Connect Authority Counties Received Awards**



Part 3:
The California Middle Mile Initiative as a Key Equity Strategy



Sylvie Wong Cosgrove, Stanford University



Tony Naughtin, GoldenStateNet



Erik Hunsinger, GoldenStateNet















Sylvie Cosgrove

Executive Director for IT Infrastructure, Stanford University

















Erik Hunsinger Vice President for Infrastructure, GoldenStateNet

















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Discussion and Q&A



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