

DEPARTMENT: Board of Supervisors

BY: Janet Bibby
PHONE: 966-3222

RECOMMENDED ACTION AND JUSTIFICATION:

Authorize the Chairman of the Board of Supervisors to sign a letter supporting the partnership grant application of Corporation for Education Network Initiatives in California (CENIC) and Central Valley Independent Network (CVIN), LLC for American Recovery and Reinvestment Act (ARRA) stimulus funds. CENIC provides broadband services to universities, colleges, and schools, and is applying for ARRA funding to extend coverage into Mariposa County and 17 other California counties. CENIC plans to offer connections to member institutions – county offices of education, community colleges, and universities, with the additional goal of connecting other public and private partners such as libraries, public safety, and hospitals. Additional broadband services will greatly enhance the County's communication capabilities. Sierra (an affiliate of Sierra Telephone) and a member of CVIN (a private sector partner) support this grant application opportunity.

Please see the attached documents for additional information about the proposal and CENIC.

BACKGROUND AND HISTORY OF BOARD ACTIONS:

The Board has historically supported endeavors that will ultimately benefit the citizens of Mariposa County.

ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:

Do not authorize the Chairman of the Board of Supervisors to sign the letter. Board members may write their own letters of support, which may not have the same level of influence as one from the entire Board.

Modify the letter and authorize the Chairman to sign the letter as modified.

Financial Impact? () Yes (X) No	Current FY Cost: \$	Annual Recurring Cost: \$
Budgeted In Current FY? () Yes () No () Partially Funded		
Amount in Budget: \$ _____		List Attachments, number pages consecutively _____
Additional Funding Needed: \$ _____		Draft Letter _____
Source:		Information provided by CENIC _____
Internal Transfer _____		_____
Unanticipated Revenue _____ 4/5's vote		_____
Transfer Between Funds _____ 4/5's vote		_____
Contingency _____ 4/5's vote		_____
() General () Other		_____

CLERK'S USE ONLY:

Res. No.: 10-189 Ord. No. _____
Vote - Ayes: 5 Noes: _____
Absent: _____
Approved
() Minute Order Attached () No Action Necessary

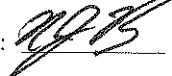
The foregoing instrument is a correct copy of the original on file in this office.

Date: _____
Attest: MARGIE WILLIAMS, Clerk of the Board
County of Mariposa, State of California

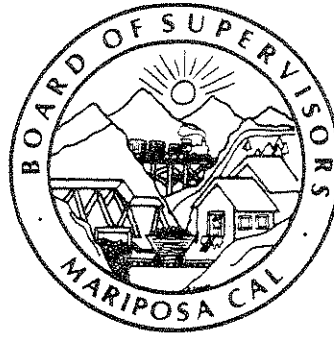
By: _____
Deputy

COUNTY ADMINISTRATIVE OFFICER:

Requested Action Recommended
 No Opinion
Comments:

CAO: 

Mariposa County Board of Supervisors



District 1 BRAD ABORN
District 2 LYLE TURPIN
District 3 JANET BIBBY
District 4 KEVIN CANN
District 5 JIM ALLEN

RICHARD J. BENSON
County Administrative Officer

MARGIE WILLIAMS
Clerk of the Board

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March 23, 2010

Jim Dolgonas
President and Chief Executive Officer
Corporation for Education Network Initiatives in California
16700 Valley View Avenue, Suite 400
La Mirada, California 90638

Dear Jim:

The Mariposa County Board of Supervisors supports the Corporation for Education Network Initiatives in California (CENIC) grant application for American Recovery and Reinvestment Act (ARRA) stimulus funding. CENIC's project titled Central Valley Next Generation Broadband Infrastructure Plan will expand and improve broadband options in 18 counties within the California Central Valley including Mariposa County.

This project, developed by CENIC in partnership with the Central Valley Independent Network, LLC (CVIN), will significantly impact many areas of our community's development. Connectivity is vital for counties to remain competitive in today's business world. Without access to high speed Internet our community businesses cannot take advantage of the wide range of business broadband applications available online.

The proposed fiber optics network infrastructure will enable the Mariposa County Office of Education, the Yosemite Community College District, the Mariposa County Library, as well as major health care and public safety facilities, to be directly connected to this infrastructure. This connectivity will assure them access to increased capacity at a very nominal marginal cost. During these dire economic times our residents deserve the best in training and services a robust network infrastructure can provide.

We wish you success with your grant application and look forward to working with CENIC and CVIN on making this project a reality.

Sincerely,

KEVIN CANN
Chairman



Leading the Way to Tomorrow's Internet

The Corporation for Education Network Initiatives in California



CENTRAL VALLEY NEXT GENERATION BROADBAND INFRASTRUCTURE OVERVIEW

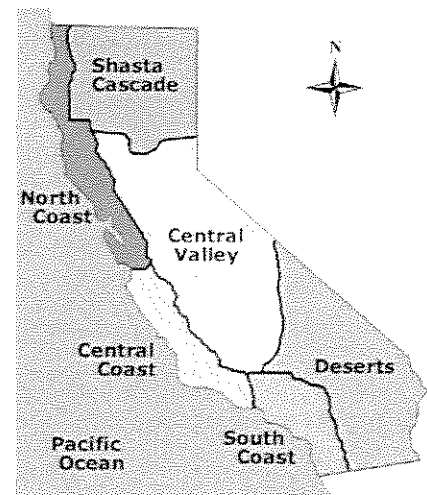
The primary goal of the American Recovery and Reinvestment Act (ARRA) is to provide a fiscal boost to the Nation during this economic crisis and to lay the foundation for long-term growth and development of our economy. One of the pillars of the ARRA is that providing access to broadband services will increase economic development and improve the quality of life for all Americans. The ARRA provides \$7.2 billion dollars of stimulus funds to increase broadband network access, particularly in rural and underserved and unserved areas.

CENIC (Corporation for Education Network Initiatives in California), (See Appendix A for description) with its private sector partner, CVIN (Central Valley Independent Network, LLC), (See Appendix B for description) have put together a technical project plan designed to improve the availability of broadband networking infrastructure for 18 counties within the California Central Valley area: Amador, Calaveras, Colusa, El Dorado, Fresno, Kings, Kern, Mariposa, Merced, Madera, Nevada, Placer, Tuolumne, Tulare, San Joaquin, Stanislaus, Sutter and Yuba counties. Based on this plan, the *Central Valley Next Generation Broadband Infrastructure Plan* we intend to submit an application to the National Telecommunications and Information Administration (NTIA) by March 26, 2010 for stimulus funds.

We believe the implementation of this robust network infrastructure can dramatically change the ways citizens in these 18 counties learn, work and live together. The funding of the application will also, in the short term, create jobs associated with network deployment and contribute to economic growth in the longer term.

SCOPE AND GOALS OF THE PLAN

The plan encompasses a service area of 18 counties covering 39,530 square miles, 24 percent of the state's geography and a population of 4,077,365 million, or over 11 percent of the state's population. The project would reach over 1,973 communities within the proposed service area, most of which currently have access only to limited network speeds. Appendix C provides some context for the plan and more detail about the counties to be served by this plan.



The goals of the plan are to:

- Directly connect 18 county offices of education, 9 community colleges, 3 universities and 18 county libraries as anchor institutions to this new network infrastructure that will connect to CENIC's existing statewide fiber-based backbone (See Appendix D);
- Expand CVIN's fiber-based infrastructure and wireless capabilities to facilitate the ability of the other anchor institutions in the community including other public libraries, major hospitals and central public safety sites, to enhance their existing high speed networking capability;
- Enable CVIN and other providers to use the new network infrastructure to facilitate businesses, residences and government agencies to have access to high speed networking capacity;
- CVIN forge strategic relationships with existing local internet providers enabling them to connect their business and resident customers to Internet services at more reasonable costs, one of the largest broadband adoption obstacles faced by most rural or underserved communities; and,
- Enhance the ability to reach the economic development goals of the 18 counties by having the required network capacity available for new businesses that might locate in these counties.

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COMPONENTS OF THE PLAN

The plan consists of four components.

1. The first component involves building, operating and maintaining three rings of fiber infrastructure that will traverse 600+ miles of rural Central Valley. This new infrastructure will provide "next generation connectivity" between 18 rural interconnection points and CENIC's existing statewide backbone network and to commercial nationwide network facilities. As part of this component fiber rings will be built to connect anchor education institutions to the existing central valley infrastructure. The anchor education institutions in this project include: eighteen (18) K-12 county offices of education, eighteen (18) county libraries, nine (9) community colleges, the Stockton Multi-campus Center, CSU Bakersfield and CSU Fresno. UC Merced is already connected to the CENIC backbone via a fiber ring. Initially will one pair of the fiber bundle will be lit to provision two distinct networks. CENIC will manage and operate one network connecting each of these anchor education institutions with diverse connectivity between the interconnection points and two different CENIC hub sites in locations such as Bakersfield, Fresno, Stockton and Sacramento. The second lit network will be managed and operated by CVIN to service other anchor institutions, businesses, residences and governmental agencies across the 18 counties.
2. The second component of the plan involves this CENIC-CVIN partnership entering into strategic relationships with other projects that may be awarded grants through the BTOP and BIP programs to implement complementary last mile infrastructure in sub regions of this Central Valley Next Generation Broadband Infrastructure Plan. Several of the proposed projects have been identified and preliminary work has started to ensure the highest degree of complementariness and the least amount of overlap. To date, of the projects identified, most are being designed to extend broadband services out within a specific county or a group of rural counties making a natural complement to the CENIC-CVIN project.
3. The third component of the plan involves CVIN entering into strategic relationships with incumbent local/regional commercial telecommunications companies and Internet Service Providers/Wireless Internet Service Providers, ISPs/WISPs, who will use the new wireless infrastructure and the new fiber network infrastructure to extend high-speed broadband services in two ways. First, they use this infrastructure to provision connections to other anchor tenants such as local schools, libraries, and major health care entities. Second, CVIN and its participants will utilize this new network infrastructure to connect business and residential customers to a major commercial ISP infrastructure in Sacramento or Los Angeles at various network speeds over the existing CENIC backbone. CENIC's working relationships with worldwide Tier 1 commercial providers will enable CVIN and its local commercial provider participants to connect with the Internet Protocol (IP) services, metro and long haul transport, content and video delivery and data/voice services of these Tier 1 providers.
4. The fourth component of the plan involves engaging with organizations such as the local community colleges, local K-12 Adult Education programs and other local non-profit organizations, that are focused on providing programs that advance the adoption of the use of broadband capabilities by all Californians, especially those in the Central Valley counties. The plan recognizes that broadband adoption goes hand in hand with infrastructure deployment, thus, this is a key component of the overall plan. To this end CENIC plans to submit a separate proposal for Sustainable Broadband Adoption funds.
5. The fifth component of the plan will involve CVIN, over time and as demand grows, extending its existing last mile fiber-based and wireless infrastructures to serve businesses and residents in these 18 counties. An initial target will be to connect other community anchor institutions to this new fiber infrastructure including branch public libraries and hospitals and medical care facilities in the region and distributed public and emergency facilities in the 18 counties.

PROJECTED COST OF THE PLAN

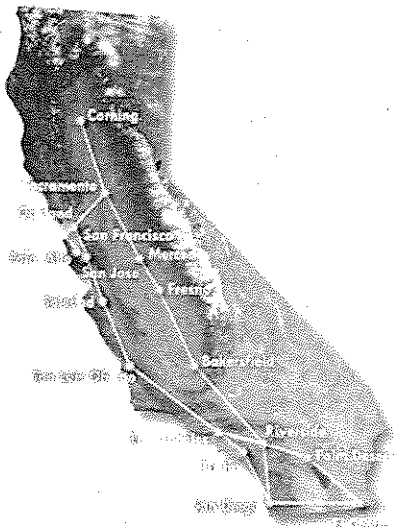
The cost of implementing this plan is projected at approximately \$70 million. 70 percent of the costs will be requested from the NTIA, 10 percent from the CPUC CASF Fund and the remaining matching amount will come from the partners.

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APPENDIX A

WHO IS CENIC



CENIC is a non-profit 501c3 corporation founded in August of 1997. There are five Charter Associates: California Community Colleges, California K-12 System, California State University System, Private Universities, and the University of California System. A board of directors, drawn from these Charter Associates, governs CENIC. CENIC leverages the buying power of these K-20 educational institutions in order to provide cost-effective, high-bandwidth networking to serve the nearly 10 million faculty, students, and staff engaged in the work of these California research and education communities. CENIC's ability to provide such benefits is a result, in part, of the strategic vision of its founders. Their collective insights and expertise were able to forecast the growing dependency on fiber based networks and develop a viable approach to controlling future costs while ensuring the provision of state of the art networking services.

CENIC currently owns and operates CalREN, a network infrastructure consisting of over 2,900 miles of CENIC owned fiber extending from the Mexican border to Corning and San Diego into Arizona, plus over 300 managed circuits leased from commercial telecommunications carriers that connect institutions to the CalREN fiber-based infrastructure, depicted to the left.

In order to maintain its position as a world leader in networking services, CENIC is committed to the following goals:

- Continuously improving a robust, cost-effective, state-of-the-art communications network, accessible to participating education and research institutions,
- Working with member institutions to define a value chain of services, and developing innovative ways to deliver scalable solutions to members,
- Leading efforts of participating institutions to provide end-to-end service quality and interoperability among member institutions, and promoting adoption across network boundaries,
- Advancing the collective interests of the institutions by leveraging their diversity and relationships to accrue benefits to individual members,
- Providing a competitive advantage in the global marketplace to the education and research communities,
- Communicating the value of CENIC as California's recognized provider of network services for education and research,
- Providing opportunities for innovation in teaching, learning, and research through use of the network, and
- Strengthening participation in the state, national, and international education and research networking communities.

CENIC is an organization nimble enough to respond to the rapid evolution of new technologies while limiting risk to its users. Its philosophy is to provide robust, cost-effective, state-of-the-art communication networks that will deliver scalable solutions to meet the diverse needs of its 10 million users. CENIC is recognized as a leader at the state, national and international levels for implementing innovative and sustainable broadband networking solutions.

Following in the footsteps of its founding educational organizations, CENIC now recognizes the need to be responsive to the networking demands of California citizens and communities beyond its member research and education institutions, and to support its long-term strategic vision has created wholly owned subsidiaries, for the principal purpose and business to facilitate availability of ubiquitous broadband and technology services throughout the State.

Already through a subsidiary, CENIC has joined forces with a commercial firm to submit a project proposal for NTIA funding to extend broadband capabilities to counties in northern California. CENIC, in collaboration with commercial partners, now turns its attention to developing a project plan and NTIA funding proposal for 18 counties in the Central Valley.

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APPENDIX B

WHO IS CVIN

Organized in 1995, the Central Valley Independent Network (CVIN) is a partnership of several Independent Telephone Companies located in central and northern California offering a full line of SS7 Network Services to other telecommunications companies in the area. Born from the Independent Telephone Industry where quality of service has always been stressed, CVIN's services are state-of-the-art, its network reliable, its prices competitive, and its customer service beyond compare. CVIN's management team has over 250 years of experience in the telecom industry.

Composed of 8 rural independent Telco-member companies that include Sebastian, Ponderosa Telephone, Sierra, Calaveras Telephone, Volcano Telephone, Ducor Telephone, Cal-Ore Telephone, and Siskiyou Telephone, these organizations represent the best in providing exceptional telephone and technology services in each of their individual markets. Many of these member companies have been in service for more than 100 years. Their serving territories cover over 7,000 square miles and serve over 63,000 access lines. They also operate more than 1700 miles of fiber and have vast experience in providing broadband services. Besides our member companies, CVIN also serves other independent Telco providers as well as cellular providers. Combined, this gives CVIN the experience and knowledge our clients have come to expect.

CVIN offers a full line of state-of-the-art SS7 Network Services designed to help providers meet the demands of today's sophisticated users and to remain competitive industry leaders in an ever-changing marketplace. From Network Connectivity to provide seamless nationwide service to wireless roaming services to protect against roaming clone fraud, CVIN has the expertise to provide you with exceptional service while helping our clients implement the right state-of-the-art solution at the right time.

Other communication solutions CVIN specializes in include:

- **ISUP Trunk Signaling** - Replace multi-frequency in-band signaling with ISUP out-of-band signaling and provide faster connect times. Increase voice trunk efficiency. Provide advanced features like Caller I.D.
- **800 Database Access & Transport**-Access to 800 database provides the necessary information for 800 call processing. Detailed billing so you'll always have a clear picture of your 800-service activity.
- **LIDB Access & Transport**-Validate calling card, third number billed, and collect calls in fractions of a second. Reduced fraud and support of alternate billing options will enhance your customer's confidence and loyalty.
- **TCAP/CLASS Messaging**-With TCAP/CLASS Messaging you can provide the full power of your advanced CLASS services. Provide CLASS services interaction on a LATA-wide basis.
- **Calling Name (CNAM) Service**-In addition to Caller I.D., the caller's name will be delivered to your customer's handset or Caller ID equipment.
- **Local Number Portability**-Access to local LNP databases to query ported numbers.

Offering the best in telecom services and peripheral supportive technologies, CVIN, and its partner companies have leveraged themselves for positive growth over the next five years. CVIN's mission continues to focus on diversifying the organizations current portfolio with innovative new technologies as well as expanding the territories we provide service to so that Central and Northern California communities and the businesses they support have the cutting-edge communication services at reasonable prices to help maintain and grow their businesses.

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APPENDIX C

CONTEXT FOR THE PLAN

The goal is to provide broadband capabilities to unserved and underserved areas throughout the United States. The soon to be released National Broadband Plan is expected to set as a long-range goal for this country achieving what has been described by the Harvard University Berkman Center as “next generation connectivity”. According to the Berkman Center in a recent study commissioned by the FCC entitled “*Next Generation Connectivity: A review of broadband Internet transitions and policy around the world*” achieving “next generation connectivity” involves two overlapping foci—deploying high bandwidth capacity (best done with the nearly unlimited capacity of fiber) and providing users ubiquitous, seamless connectivity. The vision in this **Central Valley Next Generation Broadband Infrastructure Project** is to assist California in becoming the first state to achieve “next generation connectivity” capabilities and provide ubiquitous access for all citizens by contributing toward that goal with this project for the Central Valley of California.

This plan encompasses a service area of 18 Central Valley California counties covering 39,530 square miles, or 24 percent of the state’s geography and a population of 4,077,365 million citizens. The 18 counties are: Placer, El Dorado, Amador, San Joaquin, Stanislaus, Calaveras, Colusa, Tuolumne, Mariposa, Merced, Madera, Nevada, Fresno, Tulare, Sutter, Yuba, Kings and Kern County. This plan would reach over 1,973 communities within the proposed service area, most of which currently have access to limited network speeds, see table below. (Please Note: “Availability by Speed” data from the CETF Broadband Access maps available at <http://cetfund.org/progress/broadband> & Unserved/Underserved data from the state Geographical Information Center located at Chico State).

County	Unserved/Underserved Census Information					County Demographics			Percentage of Availability by Speed					
	Total County Sq Miles	Census Block (Sq Miles)	% of Total County Area	Blocks Unserved	Blocks Underserved	POPULATION	Total Households	Total Businesses	Unavailable	5 to 1 Mbps	1 to 5 Mbps	5-10 Mbps	10-100 Mbps	0.1 to 1 Gbps
Amador	606	118	19%	41	14	35,100	12,759	1,503	21%	3%	57%	19%	0%	0%
Calaveras	1036	267	26%	316	114	40,554	16,469	1,591	19%	15%	15%	50%	0%	0%
Colusa	1157	0	0%	365	34	18,804	6097	695	23%	0%	41%	36%	0%	0%
Eldorado	1789	963	54%	1772	123	156,299	58,939	6,724	12%	13%	9%	64%	2%	0%
Fresno	6017	4699	78%	5350	295	799,407	252,940	27,420	3%	2%	4%	86%	5%	1%
Kern	8158	7119	87%	11711	457	662,119	208,652	20,732	7%	3%	2%	10%	78%	0%
Kings	1392	1181	85%	1836	90	136,691	34,418	2,785	4%	4%	4%	88%	0%	0%
Madera	2152	1324	62%	1207	118	123,109	36,155	3,663	25%	2%	7%	61%	0%	5%
Mariposa	1462	698	48%	360	38	17,130	6,613	715	44%	3%	20%	33%	0%	0%
Merced	1971	1623	82%	2110	156	210,554	63,815	5,493	9%	3%	1%	82%	5%	0%
Nevada	975	0	0%	796	42	92,033	36894	5676	12%	11%	2%	75%	0%	0%
Placer	1500	853	57%	1080	94	248,399	93,382	12,546	8%	8%	5%	5%	57%	17%
San Joaquin	1426	733	51%	636	124	563,598	181,629	17,162	3%	1%	0%	91%	5%	0%
Stanislaus	1516	1094	72%	677	137	446,997	145,146	15,271	2%	1%	0%	97%	0%	0%
Sutter	608	0	0%	339	56	78,930	27033	3035	9%	1%	1%	90%	0%	0%
Tulare	4843	4362	90%	3319	203	368,021	110,385	11,381	20%	3%	6%	71%	0%	0%
Tuolumne	2278	1591	70%	1155	108	54,501	21,004	2,397	20%	27%	20%	34%	0%	0%
Yuba	643	0	0%	120	49	60,219	20,535	1401	18%	2%	2%	78%	0%	0%

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SPECIFIC COUNTY INFORMATION (All Census Blocks)

Within **Amador** County our proposal could reach:

- 1,503 Businesses
- 12,759 Households
- 19 K-12 Schools/Higher Education
- 14 Public Safety Facilities/Offices
- 6 Public Libraries

Within **Calaveras** County our proposal could reach:

- 1,591 Businesses
- 16,469 Households
- 33 K-12 Schools/Higher Education
- 21 Public Safety Facilities/Offices
- 9 Public Libraries
-

Within **Colusa** County our proposal could reach:

- 695 Businesses
- 6,097 Households
- 33 K-12 Schools/Higher Education
- 17 Public Safety Facilities/Offices
- 7 Public Libraries

Within **El Dorado** County our proposal could reach:

- 6,724 Businesses
- 58,939 Households
- 96 K-12 Schools/Higher Education
- 24 Public Safety Facilities/Offices
- 9 Public Libraries

Within **Fresno** County our proposal could reach:

- 27,420 Businesses
- 252,940 Households
- 472 K-12 Schools/Higher Education
- 78 Public Safety Facilities/Offices
- 54 Public Libraries

Within **Kern** County our proposal could reach:

- 20,732 Businesses
- 208,652 Households
- 413 K-12 Schools/Higher Education
- 98 Public Safety Facilities/Offices
- 34 Public Libraries

Within **Kings** County our proposal could reach:

- 2,785 Businesses
- 34,418 Households
- 98 K-12 Schools/Higher Ed
- 11 Public Safety Facilities/Offices
- 8 Public Libraries

Within **Madera** County our proposal could reach:

- 3,663 Businesses
- 36,155 Households
- 94 K-12 Schools/Higher Education
- 28 Public Safety Facilities/Offices
- 6 Public Libraries

Within **Mariposa** County our proposal could reach:

- 715 Businesses
- 6,613 Households
- 19 K-12 Schools/Higher Education
- 24 Public Safety Facilities/Offices
- 6 Public Libraries

Within **Merced** County our proposal could reach:

- 5,493 Businesses
- 63,815 Households
- 171 K-12 Schools/Higher Education
- 55 Public Safety Facilities/Offices
- 20 Public Libraries

Within **Nevada** County our proposal could reach:

- 5,676 Businesses
- 36,894 Households
- 77 K-12 Schools/Higher Education
- 17 Public Safety Facilities/Offices
- 11 Public Libraries

Within **Placer** County our proposal could reach:

- 12,546 Businesses
- 93,382 Households
- 161 K-12 Schools/Higher Education
- 47 Public Safety Facilities/Offices
- 16 Public Libraries

In **San Joaquin** County our proposal could reach:

- 17,162 Businesses
- 181,629 Households
- 300 K-12 Schools/Higher Education
- 76 Public Safety Facilities/Offices
- 15 Public Libraries

Within **Stanislaus** County our proposal could reach:

- 15,271 Businesses
- 145,146 Households
- 278 K-12 Schools/Higher Ed
- 71 Public Safety Facilities/Offices
- 20 Public Libraries

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Within **Sutter** County our proposal could reach:

- 3,035 Businesses
- 27,033 Households
- 60 K-12 Schools/Higher Education
- 13 Public Safety Facilities/Offices
- 6 Public Libraries

Within **Tuolumne** County our proposal could reach:

- 2,397 Businesses
- 21,004 Households
- 35 K-12 Schools/Higher Education
- 14 Public Safety Facilities/Offices
- 9 Public Libraries

Within **Tulare** County our proposal could reach:

- 11,381 Businesses
- 110,385 Households
- 251 K-12 Schools/Higher Education
- 72 Public Safety Facilities/Offices
- 22 Public Libraries

Within **Yuba** County our proposal could reach:

- 1,401 Businesses
- 20,535 Households
- 61 K-12 Schools/Higher Education
- 7 Public Safety Facilities/Offices
- 1 Public Libraries

DEFINITIONS FOR THE ABOVE DEMOGRAPHIC INFORMATION

K-12

Boarding schools, elementary or secondary
Primary, elementary, secondary, middle and high schools
Finishing schools, secondary
Handicapped, schools for, elementary or secondary
Montessori schools, elementary or secondary
Parochial schools, elementary or secondary
Preparatory schools, elementary or secondary
Private schools, elementary or secondary
Schools for the handicapped, elementary or secondary
Schools for the mentally retarded (except preschool, job training, vocational rehabilitation)
Schools for the physically disabled, elementary or secondary

Emergency Services

Police Protection
Ambulance and Fire

Colleges/University Sites

Business colleges or schools offering baccalaureate or graduate degrees
Colleges, universities, and professional schools
Dental schools
Hospital & Hospitality management schools offering baccalaureate or graduate degrees
Law schools/Medical schools
Parochial schools, college level
Professional schools (e.g., business administration, dental, law, medical)
Schools, correspondence, college level

Healthcare Sites

Offices of Physicians, Dentists or Other Health Practitioners
Outpatient Care Centers
Medical and Diagnostic Laboratories
Home Health Care Services
Other Ambulatory Health Care Services

Libraries

Circulating libraries
Lending libraries
Libraries (except motion picture stock footage, motion picture commercial distribution)
Motion picture film libraries, archives
Reference libraries

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