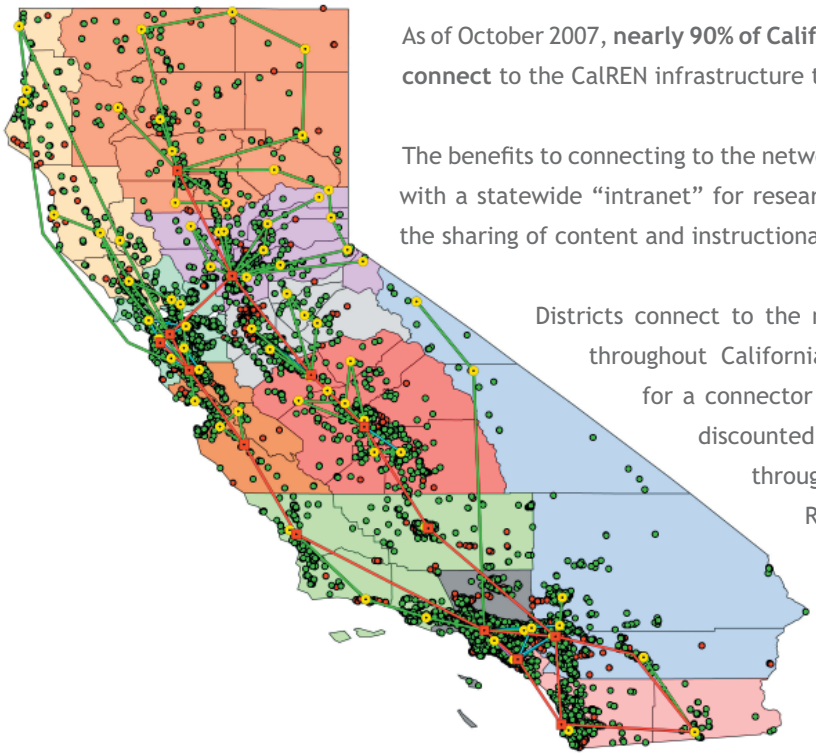
California K-12 High Speed Network

A State Program at Your Service

www.k12hsn.org

The CalREN Infrastructure

California is fortunate to have the most robust K-20 research and education network infrastructure of any state in the nation. The network was built and is maintained by the Corporation for Education Network Initiatives in California (CENIC) on behalf of participating public and private educational institutions. K-12 participation in the network is managed by the California K-12 High Speed Network program (K12HSN) under grant from the California Department of Education. The K-20 network, known as the California Research and Education Network (CalREN), serves the state's public and private institutions of higher education and the vast majority of the K-12 education community. These entities connect to each other and to educators across the U.S. via similar research and education networks in other states.



As of October 2007, **nearly 90% of California school districts and more than 8,500 sites connect** to the CalREN infrastructure through the K-12 High Speed Network Program.

The benefits to connecting to the network are significant. The network serves California with a statewide "intranet" for research and education across K-20, which facilitates the sharing of content and instructional opportunities among all connected sites.

Districts connect to the network via one or more of the 72 Node Sites throughout California. Districts contract with their local provider for a connector circuit, which is almost always E-rate and CTF discounted. In some cases, districts leverage fiber access through local efforts to connect to the Node Site. Regardless of the means, districts work with local Node Sites to secure a physical connection to the network to enjoy the benefits of the CalREN infrastructure.

K-12 Connections to the CalREN Infrastructure

If you are interested in learning more about the benefits of connecting, please contact us at (760) 312-6158 or e-mail info_request@k12hsn.org.

California K-12 High Speed Network *www.k12hsn.org*

The California K-12 High Speed Network (K12HSN) is a program funded by the California Department of Education. K12HSN provides network connectivity, Internet services, teaching and learning application coordination, and videoconferencing coordination and support for California's K-12 public schools. K12HSN was established in an effort to increase learning opportunities for all K-12 students while expanding professional development and information resources to teachers and school administrators. For more information, please contact the K12HSN office at (760) 312-6158 or e-mail info_request@k12hsn.org.

Conferencing and Collaboration

The K12HSN currently provides California schools with a variety of videoconferencing services for administrative uses, professional development, virtual field trips, collaboration and instruction. K12HSN has developed the K12video.org scheduling system which allows for the scheduling of point-to-point and multipoint calls. Additional services, such as multipoint bridging, recording, streaming and archiving are also available through the K12HSN at no cost.

>> ***http://www.k12video.org***

Applications Coordination

Most county offices of education and many districts develop their own technological, web-based resources in order to meet local needs in specific content areas (e.g. language arts, math, etc.), or for specific target groups (e.g. English Learners.)

K12HSN has developed a Directory of Network Applications to help educators discover the wealth of locally-produced resources, and reduce duplication of effort. Visitors can search by resource type, subject matter, grade ranges, or content standards to locate appropriate instructional, professional development, or data management resources that physically reside on the Network for fast and reliable delivery to the classroom and desktop.

>> ***http://directory.k12hsn.org***

Performance & Utilization Monitoring

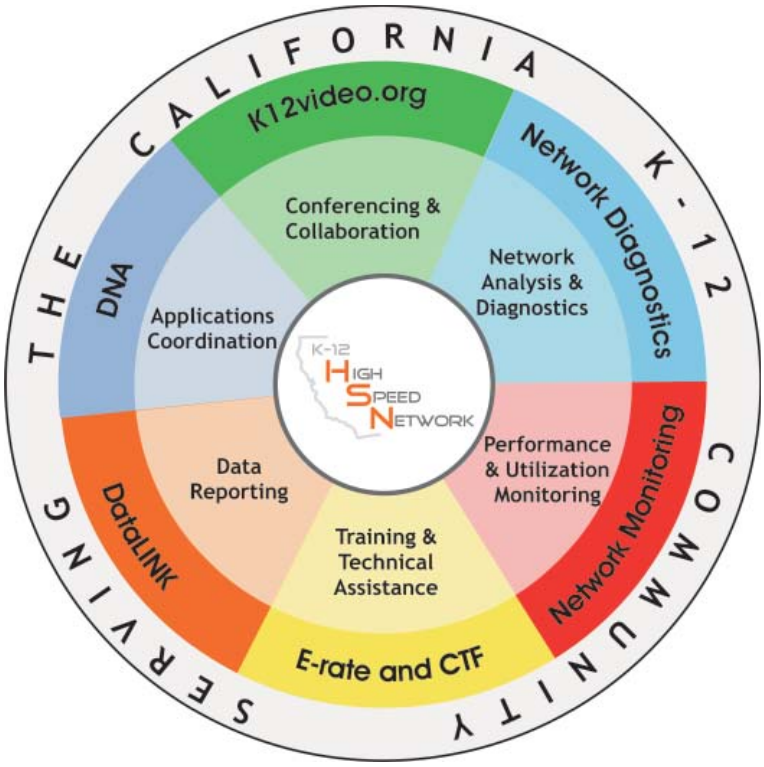
Schools and school districts can now access K12HSN's monitoring system for a complete view of the Network's utilization and performance across the state. Access real-time statistics and detailed monitoring of data from routers, switches, servers, gateways, IP VCRs and more…

>> ***http://www.k12hsn.org/network/resources***

E-rate and CTF Support

Every year, the California Department of Education and K12HSN conduct a series of beginner and intermediate/advanced training sessions throughout the state in order to assist California school districts, libraries, and county offices of education in the E-rate and CTF application process. All training options are available in person and via videoconference or live webcast.

>> ***http://www.k12hsn.org/erate***



Data Reporting

DataLINK offers direct access to California K-12 schools and districts' connectivity data and related information. Districts, county offices of education, regional and state agencies can download standard and custom reports showing the types of connections that schools and districts use to reach the Internet and its resources, the bandwidth available, etc.

In its next release, DataLINK will be expanded to permit correlation of data between the connectivity database and a variety of datasets, including school performance and demographic information. By aggregating K12HSN and other publicly available datasets, the K12HSN will facilitate access to a wealth of education and technology data.

>> ***http://datalink.k12hsn.org***

Network Diagnostic Service

The Network Diagnostic Service (NDS) is a free diagnostic and consultation service provided to California schools by the K12HSN. This service aims at improving the efficiency of school networks in order that they may take full advantage of the benefits of their connection to the Network. During the process, a preconfigured diagnostic appliance is sent to schools to analyze their network configuration against industry best practices, detect and correct network anomalies, and more...

>> ***http://www.k12hsn.org/network/diagnostics***