



Representing the **common interests** of California's education and research communities in achieving robust, high capacity, next-generation Internet communications services

Digital California Project • California Research and Education

The Corporation for Education Network Initiatives in California (CENIC) is a not-for-profit corporation serving the California Institute of Technology, California State University, Stanford University, University of California, University of Southern California, California Community Colleges and the statewide K-12 school system. CENIC's mission is to facilitate and coordinate the development, deployment and operation of a set of robust multitiered advanced network services for this research and education community.

CENIC is committed to the following goals:

1. Overseeing the deployment of a robust, cost-effective, state-of-the-art intercampus communications infrastructure and supporting resources accessible to all educational institutions in California
2. Facilitating high-quality operational support for the new infrastructure
3. Ensuring that the advanced communications infrastructure can be utilized fully and effectively by the institutions it serves
4. Representing the common interests of the institutions it serves in leveraging relationships with vendors and in working with statewide and national governmental bodies
5. Catalyzing partnerships with governmental agencies and the private sector to facilitate

availability of precompetitive communications services and equipment in support of advanced information technology applications

6. Advancing the national network communications infrastructure through active participation in Internet2, National LambdaRail and other initiatives
7. Coordinating the development and promulgation of common protocol standards and practices among participating institutions to ensure end-to-end quality of service and interoperability

California Research and Education Network (CalREN)

CalREN is a multitiered, optical network-services fabric designed to serve all research and education in California. In addition to providing the California research and education community with the most cost-effective advanced services network available, the multitiered CalREN infrastructure supplies the high-level network services needed to successfully conduct high-performance research activities.

CalREN-XD. CENIC's experimental and developmental network supports bleeding-edge services for network researchers.

CalREN-HPR. CENIC's high-performance research network provides leading-edge services for those requiring very high bandwidth and the latest network protocols and technologies.

Network • One Gigabit or Bust Roundtable • Digital California



CaIREN-DC. CENIC's Digital California network provides high-quality network services for the entire education community.

Digital California Project (DCP)

The DCP is a state-funded effort to operate and manage the necessary network infrastructure required to enable California's K-12 schools to take advantage of tomorrow's advances in network technology. In partnership with the K-12 community, the DCP makes very high-speed broadband capabilities available to county offices of education, school district offices and schools.

The overarching goal of the DCP is to enrich learning for all K-12 students in California, with a three-tiered focus on:

- Operating a comprehensive and integrated, high-speed statewide network infrastructure that expands K-12 schools' connectivity to each other, to higher education institutions, and to other organizations across the globe
- Strengthening the existing program and service relationships between universities, community colleges and K-12 schools in the areas of teacher preparation, professional development, curriculum development, student outreach and information resource sharing
- Making accessible a rich array of education resources to enhance the teaching and learning process for K-12 educators and students

One Gigabit or Bust™ Initiative

CENIC's One Gigabit or Bust Initiative addresses the technical, policy, financial and organizational challenges facing delivery of one-gigabit broadband to all Californians by 2010. The Initiative brings together the interests of research, education, commerce, state and local government and the general public with the goal of identifying the opportunities and obstacles surrounding the implementation of ubiquitous one-gigabit access and establishing an action plan to achieve it.

Joining the One Gigabit or Bust Initiative enables collaboration with interested parties on critical problems surrounding the use and creation of a gigabit network, as well as the ability to tackle research and development issues on policy, technology, implementation and economics.

Learn More about CENIC

For more information on how CENIC is helping lead the way to tomorrow's Internet, visit our Web site at <http://www.cenic.org>.



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