



Internet2 at the University of California

Internet2 advanced services networks deliver information more reliably, more efficiently, and at much faster speeds than the Internet in common use today.

The combined Internet2 networks' enormous capabilities open the door to unprecedented partnerships among scholars and scientists around the world. Educators and students at participating institutions are able to capitalize on network speeds that are many times faster than the traditional Internet, enabling new collaborations in advanced research and education such as interactive distance learning and sharing of unique or experimental, computational, and data resources.

Because Internet2 networks have such a large capacity for transmitting data quickly, researchers can be collecting data with powerful instruments in one location and analyzing that data almost simultaneously on supercomputers thousands of miles away. Physicians will be able to share and discuss interactively their medical research and diagnostic capabilities. Scholars will be able to share each others sophisticated digital libraries.

California's part of Internet2 is CalREN-2 (California Research and Education Network-2), and CalREN-2 is deployed by the Corporation for Education Network Initiatives in California (CENIC.)

CENIC is a not-for-profit corporation formed by the University of California, California Institute of Technology, California State University, Stanford University and the University of Southern California to advance the use of communications technology in research and education at California's universities.

UC was an active participant in creating the national Internet2 initiative and was instrumental in creating CalREN-2 to serve California.

Nationally, Internet2 is supported by the University Corporation for Advanced Internet Development (UCAID), a consortium that has grown to more than 180 universities and more than two dozen industrial partners. UCAID has deployed a national Internet2 backbone network, Abilene, within the United States.

California and Mexico have signed a joint Memorandum of Understanding providing for a high-speed interconnection between CalREN-2 and the advanced Internet in Mexico deployed by Mexico's Corporacion Universitaria para el Desarrollo de Internet (CUDI). The bi-national high-performance network links students, researchers and faculty at major universities throughout the two countries.