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Internet2 (www.internet2.edu) is a consortium led by over 180 universities working in partnership with industry and government to develop and deploy advanced network applications and technologies, accelerating the creation of tomorrow's Internet. Internet2 is recreating the partnership among academia, industry, and government that fostered today's Internet in its infancy. The primary goals of Internet2 are to create a leading-edge network capability for the national research and education community, enable revolutionary Internet applications, and ensure rapid transfer of new network services and applications to the broader Internet community.

This talk provides examples of the types of applications under development within the Internet2 community in support of research, teaching, and learning. These include streaming video (up to HDTV quality), high-energy physics data mining, digital libraries, virtual reality in health care, and much more. Hauss also discusses examples of advanced services, such as security, directories, quality of service, video frameworks, collaboration tool infrastructures, multicast, etc., and identifies support resources available to application developers.

Internet2 has recently expanded access to its national backbone, Abilene, to include K-20 organizations outside the research universities that make up the core of the membership. We hope this will lead to new collaborations and new applications. In addition, Internet2 has many international partnerships working together to support global education communities.