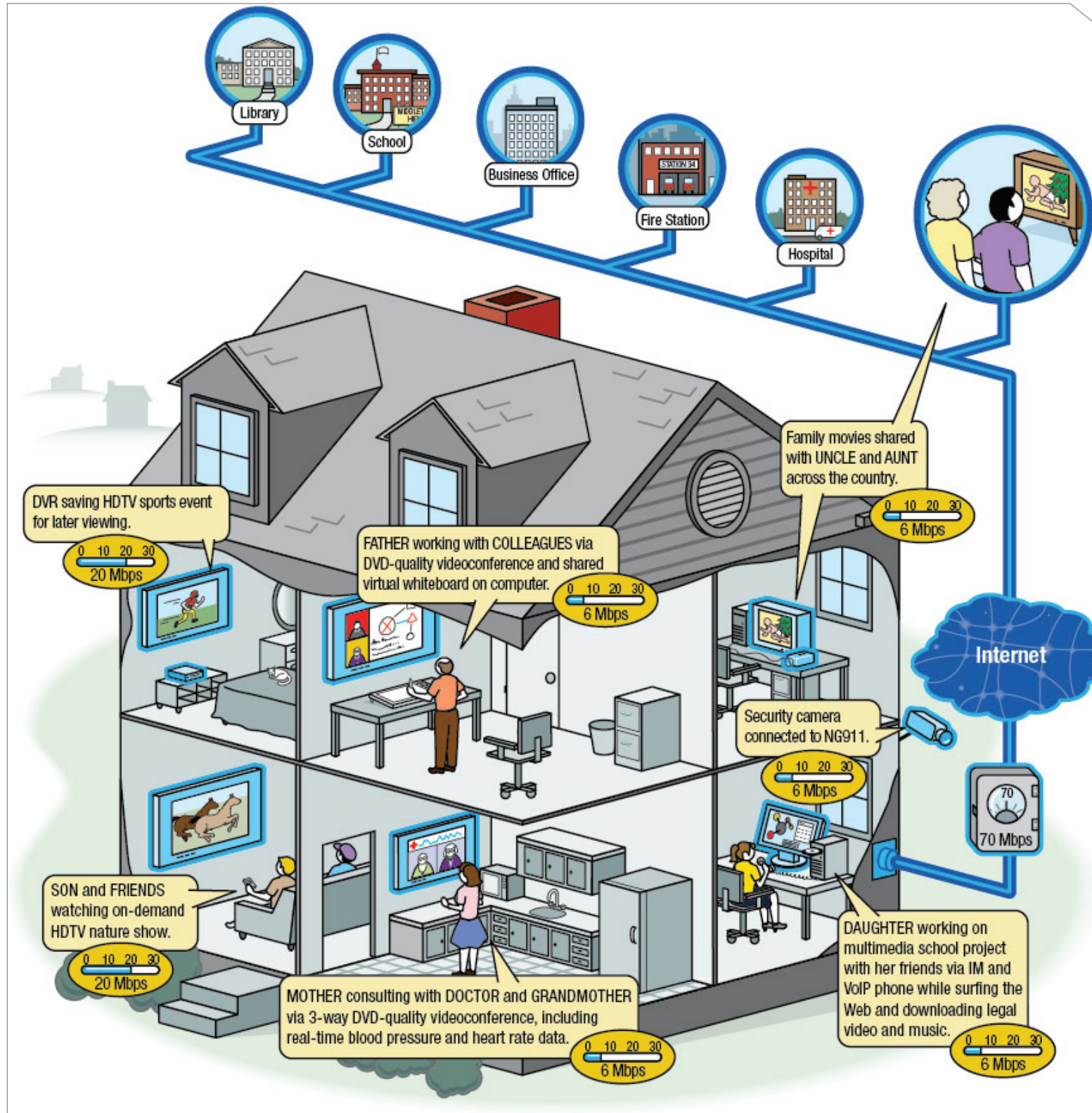


The All-Internet Household

Two-way, gigabit-capable Internet connections to the home, possible with today's networking technologies, will dramatically improve the quality of in-home learning and remote medical consultation. Affordable, interconnected broadband will allow households to use existing technologies, such as DVD-quality videoconferencing and on-demand HDTV, to collaborate with colleagues and communicate with family and friends in new ways. Ubiquitous connectivity will provide new possibilities for anyone, anywhere in America.



Realizing Broadband's Promise

Internet technologies and services, pioneered by research and education and today routinely available to businesses, hold immense promise for enabling new uses by individuals at home. Promoting their deployment, while ensuring a level playing field for competing technologies, will drive continued innovation, economic growth and affordable access.

INTERNET² www.internet2.edu

EDUCAUSE www.educause.edu

WHAT ARE THE ESSENTIALS OF BROADBAND?

- \\ Instant access
- \\ Always-on
- \\ Technology-neutral
- \\ Equal bandwidth to and from the home
- \\ Support for emerging digital services

HOW CAN AMERICA TAKE THE LEAD AND REMAIN COMPETITIVE?

Federal policymakers should make deployment of two-way, gigabit-capable, affordable broadband Internet a national priority. It is technologically possible to replace today's "networks of scarcity" with near-ubiquitous gigabit "networks of plenty". These networks would free businesses, innovators, and consumers to build the future of knowledge-based goods and services. Such an infrastructure offers the United States the chance to regain the lead in creating next-generation communication and economic growth opportunities as we did at the dawn of the Internet.

HOW CAN AFFORDABLE, UBIQUITOUS BROADBAND BENEFIT AMERICANS?

Affordable broadband holds the key to America's economic vitality and global competitiveness. Americans can enjoy greater access to educational and occupational opportunity, affordable modern health care, and cultural enrichment. With the right policies supporting it, affordable, ubiquitous broadband can enable every citizen and every business to be *producers*, not just *consumers*, of network information and services.

HOW CAN POLICY HELP?

Policies must ensure a level playing field for competing technologies so that market forces can drive continued innovation and affordable access. All components of the broadband Internet must interconnect and interoperate using freely available standards, and remain open to all lawful applications and content. States and municipalities should be allowed to build and deploy broadband networks when necessary to enable everyone to participate in Internet-based education, workforce development, and telemedicine. Public investment should focus on future network technologies and capabilities.

Broadband's Promise for America

A secure, affordable, fast, and improved Internet will provide a nationwide platform for continued innovation and economic growth. As Congress and the Federal Communications Commission begin their upcoming review of the Telecommunications Act, leaders in technology and higher education are urging them to:

- \\ Make high-speed access open to all
- \\ Create a level playing field for competing technologies
- \\ Support for state and local networks
- \\ Increased R&D funding that will enhance the Internet

www.broadbandforhighereducation.org

BROADBAND TECHNOLOGIES AND USES

