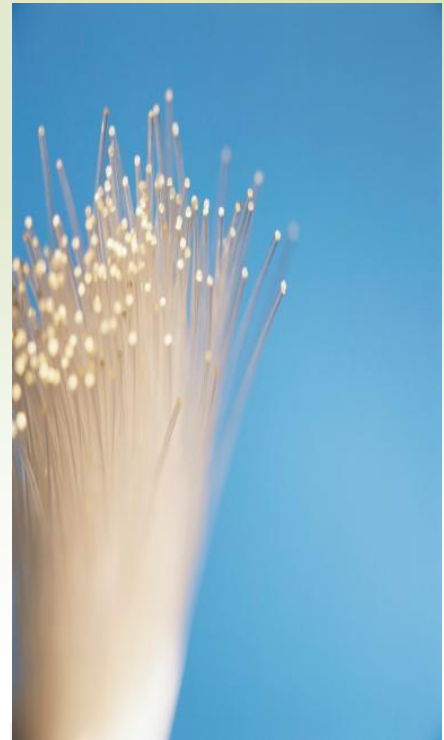


Community Connectivity Consortium



History

The consortium started in 2002 with a joint fiber project between the Lake Washington School District, City of Kirkland, University of Washington and the City of Bellevue. It then expanded to include Evergreen Hospital, the Bellevue School District, Bellevue College, City of Renton, Renton School District, and City of Seattle. In 2011, the Consortium was formally organized as a government agency, and since then has continually found opportunities to connect public institutions and to expand the fiber network to 'ring Lake Washington' and into south King County.

We have built over 35 miles of fiber optic cable, creating strategic **connection points** along the way. Our members have successfully completed projects with a valuation of over \$41M. Our members use the fiber network to:

- Connect schools and universities to **enhance learning**.
- Connect hospitals, medical facilities and clinics to **improve health care**.
- Connect government facilities for **public safety**, transportation and other needs.
- Provide secure, robust, high performance network to serve the public interest.

Future

There are major connection points in Seattle, Bothell, Bellevue, Renton and Kent, we intend over the next five years to:

- Create a vibrant and **competitive region** by providing connectivity to meet the needs of our **community institutions** – hospitals, schools, city halls, public safety agencies.
- Expand the use of our fiber network to support new applications and needs.
- Build **resiliency** in our network and for our partners by adding redundancy and connecting with other regional networks.
- Ensure a sustainable organizational, governance and management structure to make sound, long-term decisions benefiting our customers.

Current Membership

Bellevue College
Bellevue School District
City of Algona
City of Auburn
City of Bellevue
City of Federal Way
City of Kent
City of Kirkland
City of Milton
City of Newcastle
City of Pacific
City of Redmond
City of Renton
City of Seattle
City of Tukwila
Evergreen Hospital
Federal Way Public Schools
King County
Lake Washington School District
NORCOM
Northshore School District
Renton School District
SCORE
University of Washington
Valley Communications Center
Valley Medical Center



Current Focus

- Completed: US Department of Homeland Security Urban Area Security Initiative (UASI) grants to extend the fiber network to Tukwila, WA.
- Completed: Optical 1GB/10GB network fiber Ring around the Lake' to create a resilient high capacity core. Network capacity can grow to 16TB.
- Sizing: Defining the future needs of our community institutions – schools, public safety facilities, hospitals, government facilities - to scale the optical network design.
- Growing: Pursuing our strategic goals of expanding our network and adding partners along the way.

Like electricity a century ago, broadband is a foundation for economic growth, job creation, global competitiveness and a better way of life. It is enabling entire new industries and unlocking vast new possibilities for existing ones. It is changing how we educate children, deliver health care, manage energy, ensure public safety, engage government, and access, organize and disseminate knowledge.

The National Broadband Plan

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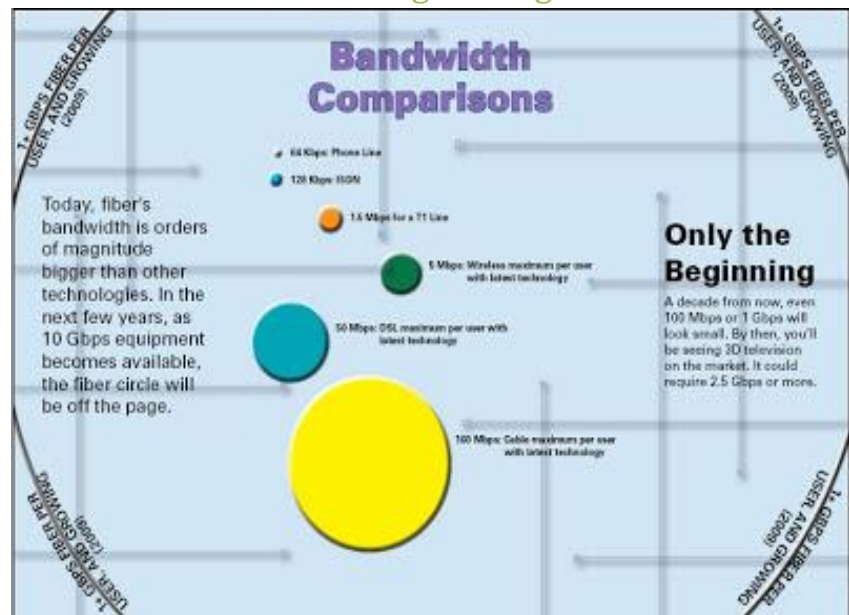
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How Big Is a Gig?



From Fiber to the Home Primer

Why bandwidth matters?

More data, more devices, more connected things. Today, research institutions deal with large scientific data sets often collaborating with other universities and scientists around the world. A single DNA sequencer can use a 2.5 gbps connection. Schools and universities are moving into online curriculum with much richer content and more interaction with students from anywhere. Medical centers generate numerous large data files from digital imaging often sharing with specialists or clinics in the region. A single CT scan is one hundred times the size of a digital photo. High-tech companies need significant bandwidth for video streaming, cloud services, online gaming, 3D imaging, etc. Consumers also make up a large part of the demand growth with high-definition video streaming subscriptions, video calls to connect with families and friends, uploading photos and videos to social media sites, and a proliferation of mobile devices that are always connected to the internet.