Broadband in Oregon

Christopher Tamarin
Oregon Business Development Department
September 27, 2019
Broadband as Essential Service

“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 healthcare, manage energy, ensure public safety, engage government, and access, organize and disseminate knowledge.”

-The National Broadband Plan
## Oregon Broadband Adoption by Region

<table>
<thead>
<tr>
<th>Broadband Status</th>
<th>Total</th>
<th>NW Coast</th>
<th>Portland</th>
<th>Central Coast</th>
<th>SW Oregon</th>
<th>North Central</th>
<th>Central Oregon</th>
<th>South Central</th>
<th>Eastern</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadband at home</td>
<td>82%</td>
<td>78%</td>
<td>85%</td>
<td>83%</td>
<td>79%</td>
<td>76%</td>
<td>83%</td>
<td>69%</td>
<td>67%</td>
</tr>
<tr>
<td>Not-at-home Internet User</td>
<td>4%</td>
<td>6%</td>
<td>4%</td>
<td>2%</td>
<td>4%</td>
<td>3%</td>
<td>5%</td>
<td>6%</td>
<td>4%</td>
</tr>
<tr>
<td>Dial-up</td>
<td>1%</td>
<td>3%</td>
<td>1%</td>
<td>1%</td>
<td>2%</td>
<td>1%</td>
<td>2%</td>
<td>1%</td>
<td>4%</td>
</tr>
<tr>
<td>Internet Non-user</td>
<td>13%</td>
<td>14%</td>
<td>10%</td>
<td>13%</td>
<td>15%</td>
<td>20%</td>
<td>10%</td>
<td>24%</td>
<td>25%</td>
</tr>
</tbody>
</table>
The Oregon Broadband Office shall:

- Advocate for the adoption of public policies that remove barriers to and support broadband infrastructure deployment to close the continuing digital divide.
- Develop broadband investment and deployment strategies for unserved and underserved areas.
- Promote private sector, public sector, and cooperative broadband solutions.
- Support and promote local and regional broadband planning.
The Oregon Broadband Office shall:

- Pursue and leverage federal sources of broadband funding to achieve state broadband goals.

- Manage and award funds allocated to the office for broadband projects.

- Engage with stakeholders; elected officials, government officials, healthcare providers, educators, business, agriculture and other community leaders, and broadband service providers; to facilitate communications and aggregate the demand of the different segments of the community to help make a business case for broadband investment.
The Oregon Broadband Office shall:

• Develop and maintain a broadband map as a platform for data collection to track the availability of broadband services and measure progress as well as other related information and provide public access to the data.

• Promote digital equity and inclusion.

• Advise the Governor, state agency leaders, and the Oregon Congressional Delegation on broadband

• Support and coordinate efforts with the Oregon Broadband Advisory Council.
Oregon Broadband Advisory Council

Council Mission:

• Encourage coordination and collaboration between organizations and economic sectors

• Leverage the development and utilization of broadband for education, workforce development and telehealth

• Promote broadband utilization by citizens and communities.

www.broadband-oregon.org
The council members are community leaders appointed by the Governor and representing a broad range of sectors and interests:

- **Cities**: Jeremy Pietzold (City of Sandy)
- **Counties**: David Yamamoto (Tillamook County)
- **Service Providers**: W. Holmes, J. Franell, R. Petersen
- **Tribes**: Lonny Macy
- **Educators**: Anne Carloss
- **Economic Development**: Dave Sabala
- **Public Safety**: Major Tom Worthy (OSP)
- **Healthcare**: Dr. Miles Ellenby
- **State CIO**: Vacant
- **ODOT**: Vacant
- **Consumers / Public-at-Large**: Vacant
- **Public Utility Commission**: Commissioner Stephen Bloom
- **State House of Representatives**: Representative Pam Marsh
- **State Senate**: Senator Arnie Roblan

[www.broadband-oregon.org](http://www.broadband-oregon.org)
Existing Public Policy

• “...it is the goal of this state to promote access to broadband services for all Oregonians in order to improve the economy in Oregon, improve the quality of life in Oregon communities and reduce the economic gap between Oregon communities that have access to broadband digital applications and services and those that do not...” [ORS 759.016(1)]

• “It is the policy of the State of Oregon to promote, facilitate and encourage activities, projects and businesses that improve Oregon’s Internet Protocol network infrastructure, performance and connectivity to the Internet backbone network and World Wide Web for the benefit of Oregon’s commercial, educational, governmental and individual users.” (SJR 19 (2007))
OREGON BROADBAND OFFICE

Oregon has a world-class telecommunications infrastructure extending throughout the state. Multiple fiber optic backbone networks with diverse routing provide excellent network reliability and connectivity delivering reliable high-capacity digital services throughout the state. Broadband internet access is widely available for businesses and residents.

The Oregon Broadband Office was established in December 2018, by Governor Brown’s Executive Order, to promote access to broadband services for all Oregonians in order to improve the economy and quality of life. The office will:

- support and coordinate efforts with the Oregon Broadband Advisory Council;
- develop and maintain a broadband map as a platform for data collection to track the availability of broadband services and measure progress as well as other related information and provide public access to the data;
- develop broadband investment and deployment strategies, manage and award funds allocated to the office for broadband projects;
- Advocate for public policies that remove barriers, promote and coordinate solutions, support and promote broadband planning.

Read the executive order for a full list of activities the office will undertake.

www.broadband.oregon.gov
Rural Broadband Capacity Pilot Program

Projects
Oregon cities, counties, ports, tribes, cooperatives, non-profits, and public-private partnerships submitted proposals. There were 25 applications submitted for more than $4.8 million in requested funding. Grants awarded will support broadband planning and infrastructure projects located in Baker, Columbia, Coos, Curry, Douglas, Morrow, Harney, and Tillamook counties.

<table>
<thead>
<tr>
<th>Organization</th>
<th>Project Name</th>
<th>Grant</th>
<th>Brief Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Baker City</td>
<td>Elkhorn View Industrial Park Broadband</td>
<td>$137,000</td>
<td>Baker City will deploy a fiber distribution network throughout the 65-acre city-owned industrial park.</td>
</tr>
<tr>
<td>City of Boardman</td>
<td>Broadband Strategic Planning</td>
<td>$10,000</td>
<td>Boardman will develop a Broadband Strategic Plan for the city.</td>
</tr>
<tr>
<td>City of Glendale</td>
<td>Glendale</td>
<td>$140,000</td>
<td>Glendale will deploy a city wide fiber-to-the-home (FTTH) and fiber-to-the-business (FTTB) network through a public-private partnership.</td>
</tr>
<tr>
<td>Columbia County</td>
<td>Columbia County Broadband Project</td>
<td>$68,300</td>
<td>The county will assess its broadband needs, infrastructure, vendor resources, and strategic options including a county-wide fiber ring to provide high-speed internet services to residents, businesses, anchor institutions, and emergency services throughout the county.</td>
</tr>
<tr>
<td>Coos Curry Electric Coop</td>
<td>Broadband Feasibility Study</td>
<td>$19,700</td>
<td>CCEC will conduct a feasibility study for building a broadband network to provide services to rural underserved areas of Coos, Curry, and part of Douglas counties.</td>
</tr>
<tr>
<td>Harney County</td>
<td>Harney County Broadband</td>
<td>$75,000</td>
<td>The county will develop a Broadband Strategic Plan in collaboration with the cities of Burns and Hines, and the Burns Paiute Tribe.</td>
</tr>
<tr>
<td>Tillamook Lighthouse</td>
<td>Port area of Garibaldi</td>
<td>$50,000</td>
<td>TLW will expand its fiber network in the Port of Garibaldi area to deliver Gigabit services and support economic development.</td>
</tr>
</tbody>
</table>

business oregon
Opportunities

• Source of funding for planning, engineering and building infrastructure

• Source of matching funds for federal and private foundation loan and grant programs

• Technical assistance

• Data collection and reporting

• Networking (building a community of interest)

• Education

• Digital Inclusion
Link Oregon

- Link Oregon is a non-profit consortium of Oregon’s state government and four research universities – OHSU, Oregon State University, Portland State University, and the University of Oregon – together with the existing Network for Research & Education in Oregon (NERO).

- Link Oregon will operate a statewide, fiber-optic network to support the founding partners’ diverse public missions, including enhancing research and innovation, education, healthcare and public services for all Oregonians.

www.linkoregon.org
WELCOME TO CYBER OREGON
BUILDING TANGIBLE SOLUTIONS TO PROTECT THE DIGITAL LIVES OF ALL OREGONIANS

LEARN MORE  LATEST NEWS
FirstNet is an independent authority within the U.S. Department of Commerce.

Authorized by Congress in 2012 to develop, build and operate the nationwide wireless broadband network that equips first responders to save lives and protect U.S. communities.

Contracted with AT&T.

www.firstnet.gov
NTIA Releases Comprehensive Guide to Federal Broadband Funding

FOR IMMEDIATE RELEASE:
June 03, 2019

News Media Contact:
Anne Veigle, (202) 482-4208, aveigle@ntia.gov

Today, NTIA is announcing a new searchable database of 50 federal broadband programs, spanning a dozen federal agencies with billions of dollars for broadband grants, loans and other resources. The database, created with help of participating federal agencies, fulfills a goal set out in the American Broadband Initiative announced in February to make it easier for community leaders to find federal funding and permitting information.

https://www.ntia.doc.gov/
Oregon Connections: Smart Communities
October 24 and 25, 2019 - Ashland, Oregon

www.oregonconnections.info

2019 Conference
The Oregon Connections Telecommunications Conference draws attendees from all regions of the country to share ideas, experiences and knowledge about telecommunications.

The 2019 conference presenters and attendees will be exploring 

Smart Communities
strategies, applications, enabling technologies and Oregon initiatives.

Topics include smart cities, Internet of Things, new developing technologies, and smart solutions for rural cities.

The conference features speakers, panels, group discussions, breakfast - luncheon - refreshments, receptions and more.

Sponsor Info | Exhibitor Info

When? Oct 24-25, 2019
This year's conference theme is Oregon Connections: Smart Communities. See program details, including Conference Agenda.

Our Keynote Speakers are:

Jean Rice,
National Telecommunications and Information Administration
Learn more.

Trever Yarrish,
CEO and Founding Partner, ZEAL
Learn more.

Where? Ashland, Oregon

ASHLAND HILLS Hotel Suites

The 24th annual Oregon Connections Telecommunications Conference will be held on Thursday and Friday, Oct 24-25, 2019 at the Ashland Hills Hotel and Suites Conference Center, Ashland, OR. Reservations: 855-482-8310 - Ask for special conference rates.

REGISTER ONLINE! $190. Early bird registration $180 until September 6th.

See who came to the 2018 conference.
A Challenging Work in Progress

- Broadband infrastructure will always be a work in progress as technologies and applications change over time.

- What constitutes broadband, e.g., transmission speeds of thousands of bits per second, millions of bits per second, or billions of bits per second will be a moving target.

- The Internet has emerged as the global platform for communication, business, government, education, information storage and distribution, and entertainment.

- Competitive high-speed access to the Internet and telecommunications networks is essential for Oregon’s institutions including schools, businesses, government, health care and individual citizens.
Thank You

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