

Washington State Broadband Office

Update:

Broadband Access, Equity and Inclusion

Russ Elliott

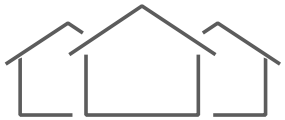
DIRECTOR, WASHINGTON STATE BROADBAND OFFICE

DECEMBER 8, 2020



Washington State
Department of
Commerce

We strengthen communities



**HOUSING
HOMELESSNESS**



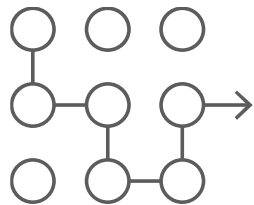
INFRASTRUCTURE



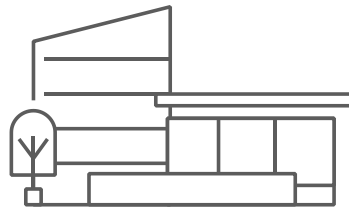
**BUSINESS
ASSISTANCE**



ENERGY



PLANNING



COMMUNITY FACILITIES



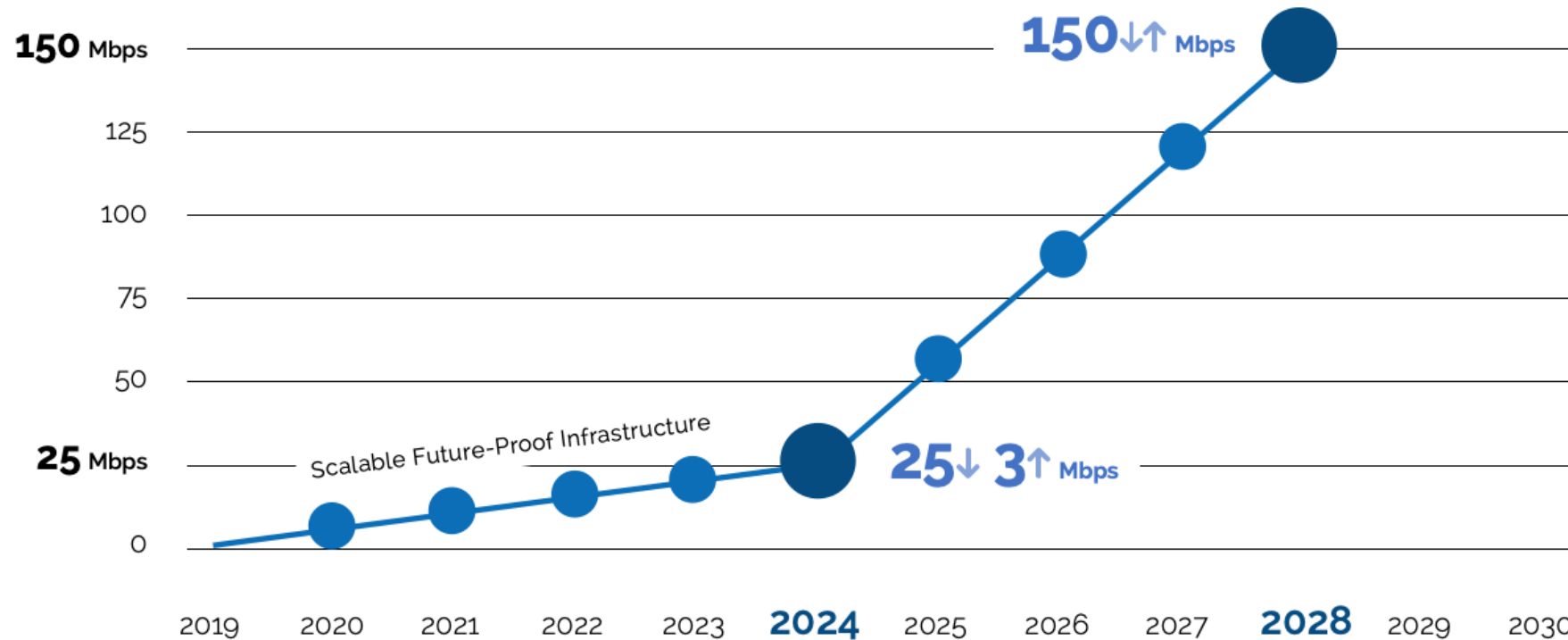
**CRIME VICTIMS &
PUBLIC SAFETY**



**COMMUNITY
SERVICES**

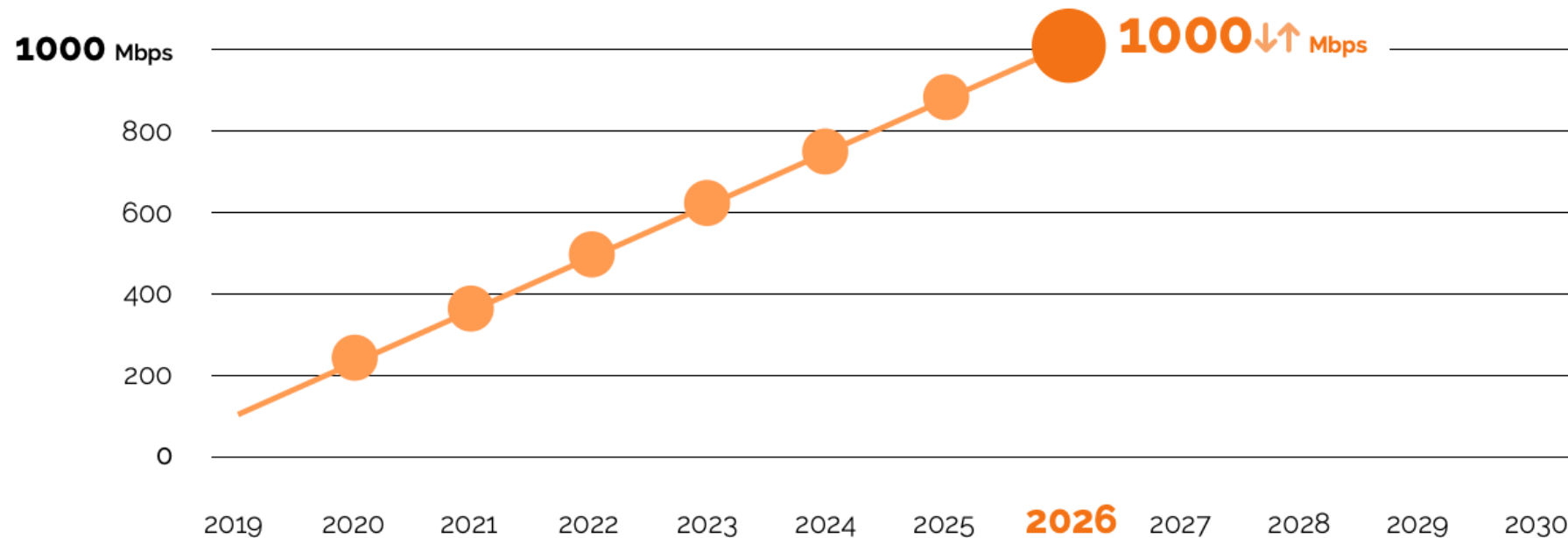
State Speed Goals - Residential

SB 5511



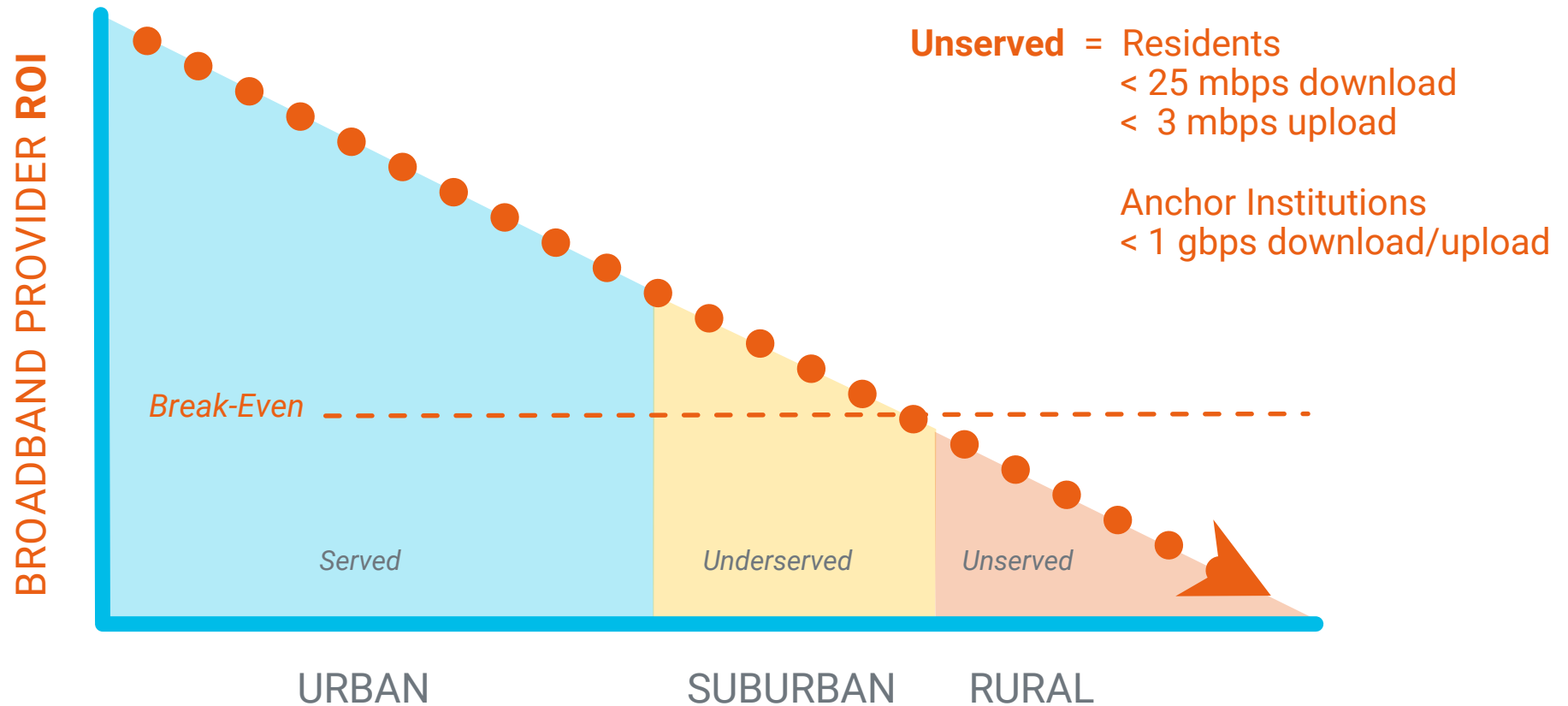
- 884,000 homes without fiber
Est. \$2.5+B

State Speed Goals - Anchor Institutions SB 5511



- Schools
- Libraries
- Health Care
- Public Safety
- Essential Services
- Industries
- Government

The Broadband Delivery Challenge



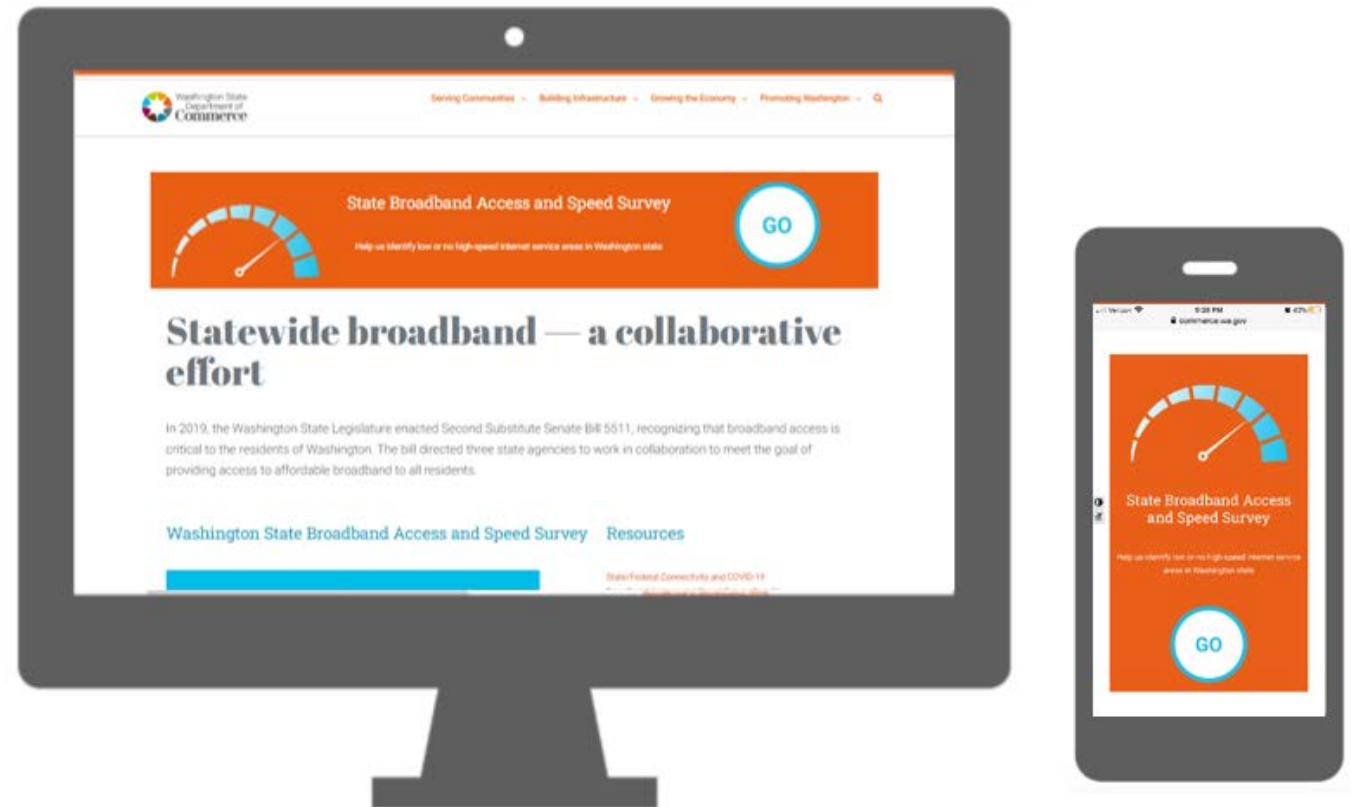
State Broadband Survey

broadband.wa.gov

- Participate in survey via computer or mobile device
- If you do not have internet access at home:

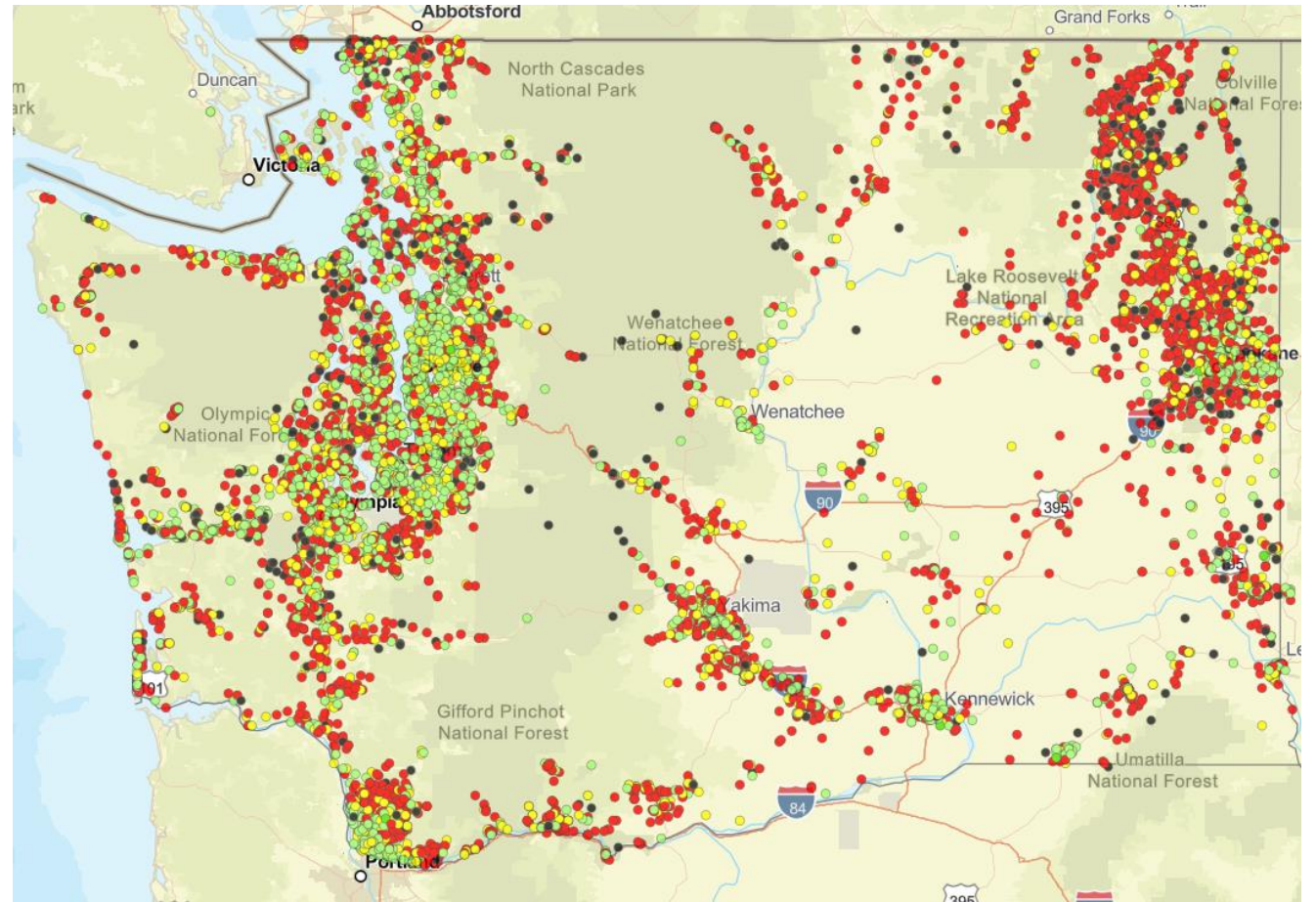
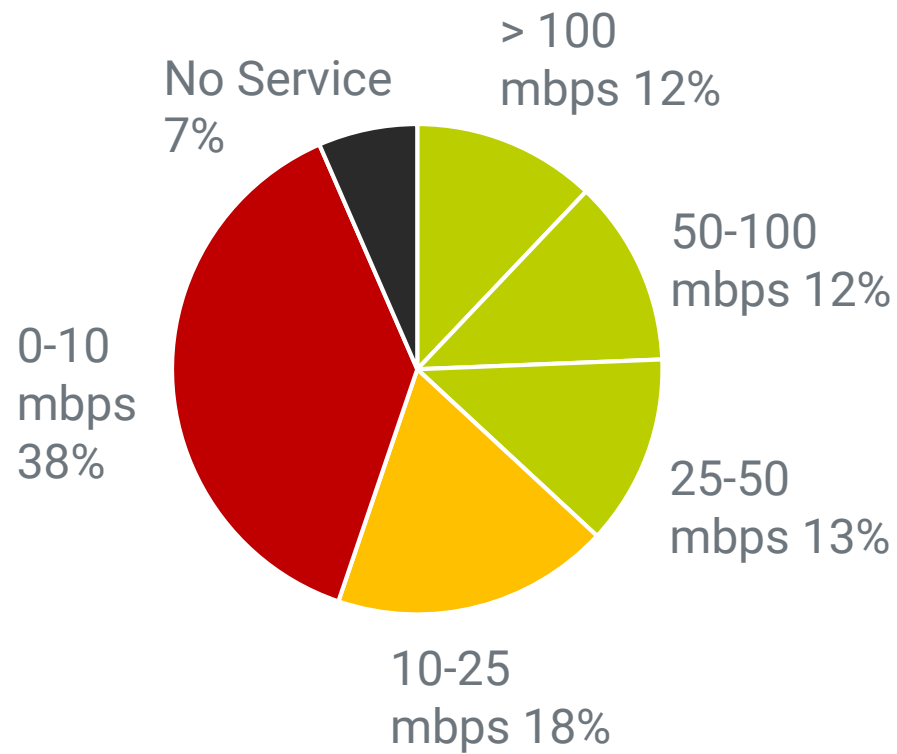
Ask a friend with access to enter your no service address for you

Visit a wifi hotspot or drive-in wifi hotspot (driveinwifi.wa.gov)



Download Speeds: 63% < 25 mbps

41,676 Surveys



Reasons Given For No Service

- \$37,399 to bring 1/4 mile of service
- Available at every property but not ours
- Available at asphalt, house is 500 ft away
- Been requesting service for 5 years
- Told not available but neighbors have it
- Broadband available on other side of street only
- Cable not available down private road
- Only one provider, bandwidth exhausted
- Told I'm too far from street to connect
- Every provider has refused service
- No line of site to cell tower
- Not reliable/usable speeds available
- Only satellite available, high latency, data caps
- Service is too slow to work from home
- Super slow unable to zoom or do schoolwork
- Alternative energy house not connected to PUD
- Provider wants \$50,000 for installation
- We pay \$150/m for satellite and get dial up speed

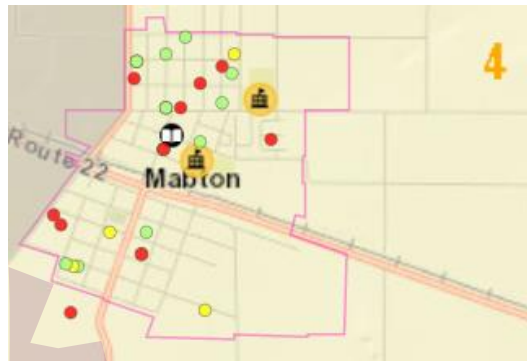
State Broadband Map Layers

November 2020

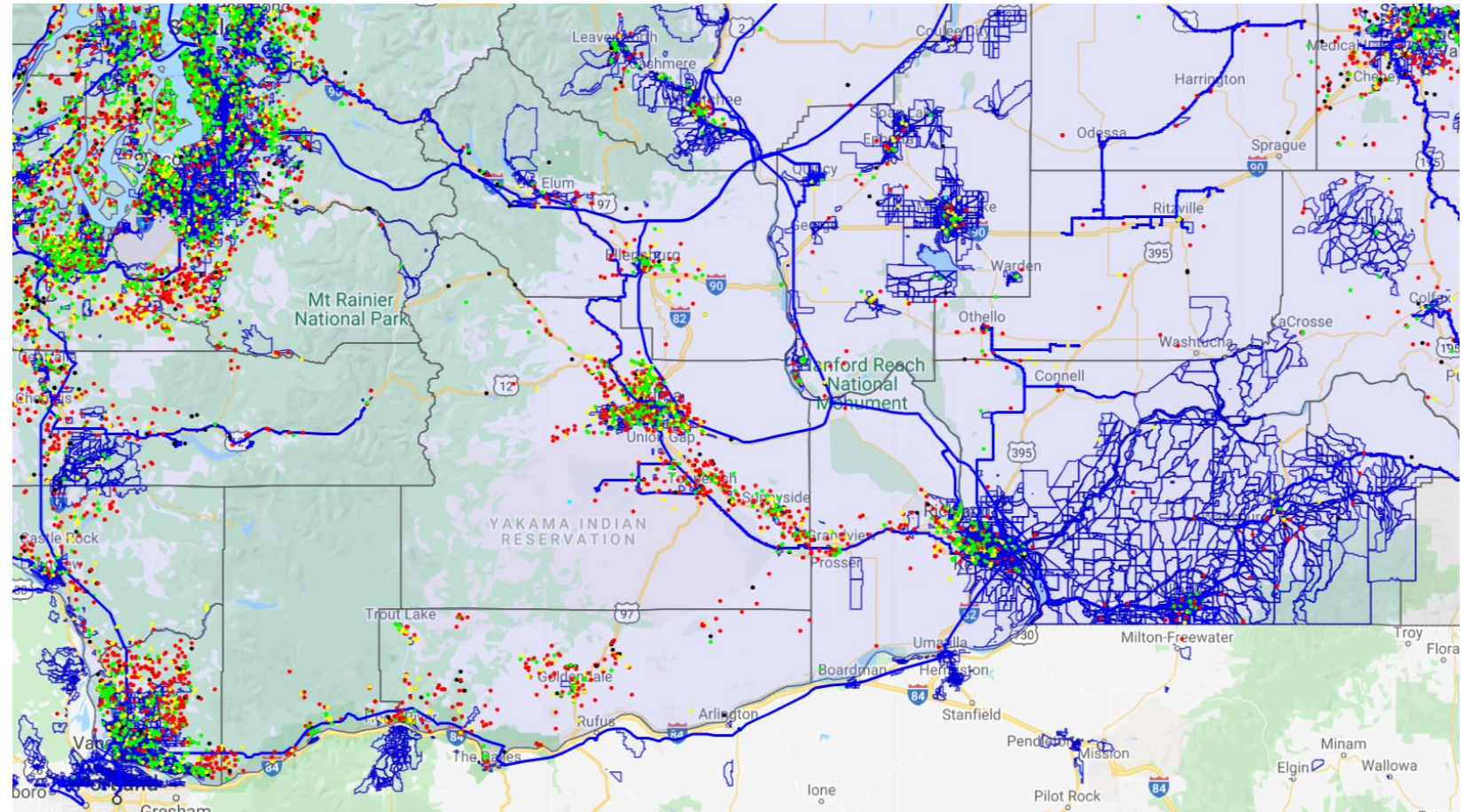
Speeds

Up/Down/Ping/Jitter/
Provider/Service type/Fee

Fiber Routes



City Limits, Leg. Districts,
County Boundaries,
Tribal Lands, DNR Towers,
CAFII, Schools, Libraries



Maximize Access To Funding Opportunities

- 2020 FCC Rural Digital Opportunity Fund (*RDOF*) \$16B, \$4.4B
- 2021 USDA Rural Development Broadband *ReConnect* Loan and Grant Program \$550, \$600M
- 2020-21 USDA Community Connect \$35M
- 2021 Broadband Stimulus Potential \$14+B
- FCC 2.5GHz Rural Tribal Window
- USDA Distance Learning and Telemedicine \$50K-\$1M
- Private / Undiscovered
- State PWB Construction Cycle \$17M
- State CERB Rural Broadband Construction and Planning Program \$10M
- State Universal Service Fund

Solve The Last Mile Issue

- Universal Service Fund
- Dig Once
- Anchor +1
- Tech-neutral approach to last mile
- Tribal Sovereignty
- Public Use IRUs (Indefeasible Right of Use)
- Data privacy for providers

Emerging Technologies

Currently in discussions with:

- 5G Cellular
- Microsoft TV White Space/Airband
- SpaceX Starlink
- Amazon Kuiper
- Avista
- 2.5GHz EBS Ed. Broadband Spectrum



Hoh Tribe @TribeHoh · 3h

What a difference high-speed internet can make! Our children can participate in remote learning, residents can access [#healthcare](#). We felt like we'd been paddling up-river with a spoon on this. [@SpaceX](#) Starlink made it happen overnight. Thanks [@WASateCommerce](#) for introduction.

1

58

293



Elon Musk ✓

@elonmusk

Replying to [@TribeHoh](#) [@SpaceX](#) and [@WASateCommerce](#)

You're most welcome!

2:08 PM · Oct 7, 2020 · Twitter for iPhone

Success Framework: Point Roberts, WA



Broadband Action Team

- Whidbey Telecom
- WITA
- Point Roberts Community
- USDA
- Tech assist
- Grant writer

- Align w/state speed goals
- Identify gaps with State Survey/Map
- Feasibility study/Network design

- Grant Writing Assistance
- **10/22/20 USDA ReConnect Award: \$596,000**

- 2021 Fiber-to-the-premises broadband service to 144 households/ 0.16 sq m

- Support Digital Equity and Inclusion
- Federal Lifeline
 - Tribal Link-Up program

Broadband Office Community Support



- Broadband Action Team **Community Planning** Grants

- State **Survey/Map** Resource
- **Tribal and Community Feasibility** Grants

- **Grant Writing** Grants
- **Funding Opportunities** Resources
- **Match Funding** Assistance

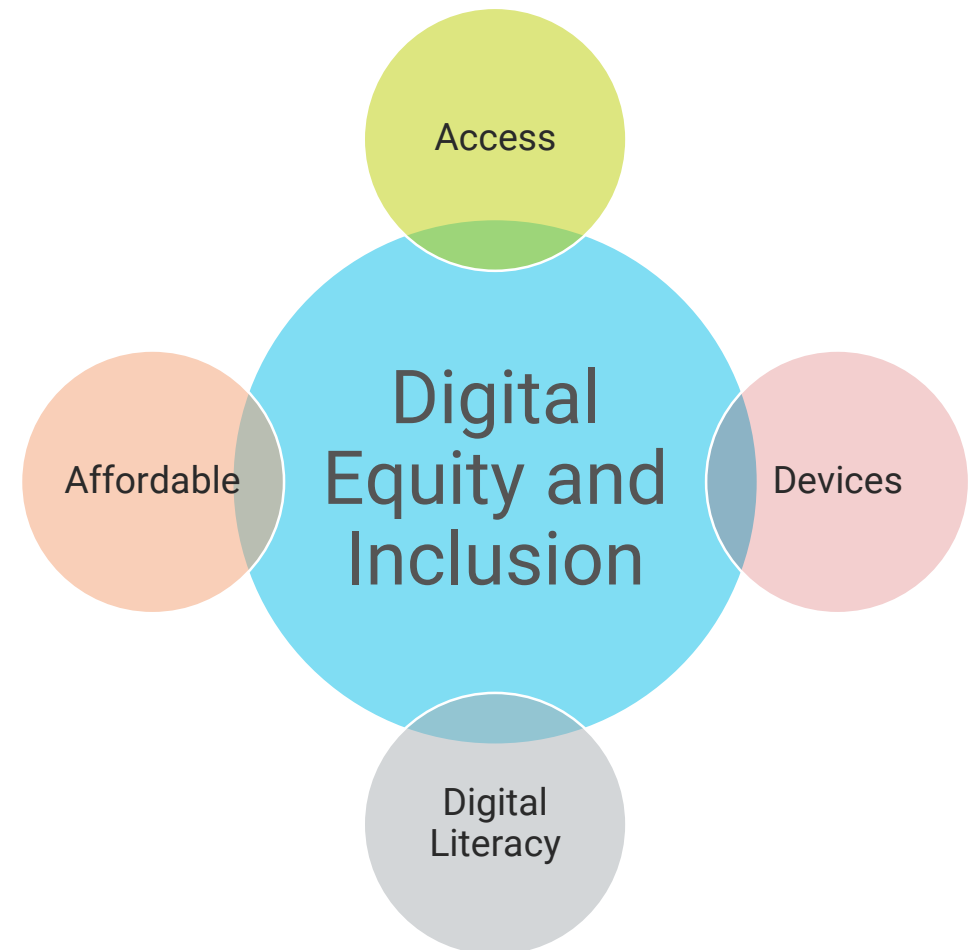
- Scalable, Sustainable, **Future-Proof Networks**

Digital Equity and Inclusion Grants

- Access
- Affordability
- Devices
- Digital Literacy

Promote Digital Equity and Inclusion

- COVID-19 exposed inequities in access to broadband service, devices, and digital literacy training
- Policy guidance and centralized coordination with statewide DEI initiatives:
Human Centered Design Committee, DSHS, DOH, ESD, DCYF, State Board of Community and Technical Colleges, Health Care Authority, I-ACT, Digital Equity Taskforce, Poverty Reduction Work Group, Remote Learning Taskforce, OSPI, Seattle Digital Equity, All In Washington, Washington State University, Washington State Library | SOS, Digital Navigators
- DEI planning via local Broadband Action Teams
- Digital equity implementation grants, outreach, staff
- Facilitate access to low-income programs
- State Drive-In WiFi hotspots program expansion



Next Steps

Maximize community access to funding opportunities:

- Visit **broadband.wa.gov** and take the State Broadband Access and Speed Survey
- Identify and develop **shovel ready projects** for **funding applications**

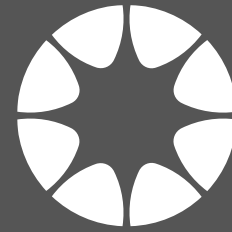
**“What gets
measured gets
done!”
Thank you.**

Russ Elliott

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Washington State
Department of
Commerce

www.commerce.wa.gov

