# WESTCANAL Broadband Town Hall

August 2021

## Tonight's agenda

- What are we doing here?
- Who are we?
- What are your choices today?
- What is coming?
  - WA SBO (Russ): Rural broadband funding, and how to qualify
  - Jefferson PUD (Kevin, Lori): Quilcene and Disco Bay
  - Mason PUD1 + HCC (Kristin, Mike): Hama Hama to Mt Walker
- How can you help?
- Town Hall Q&A

# Connect the <u>unserved</u> in Jefferson and Mason counties to broadband.

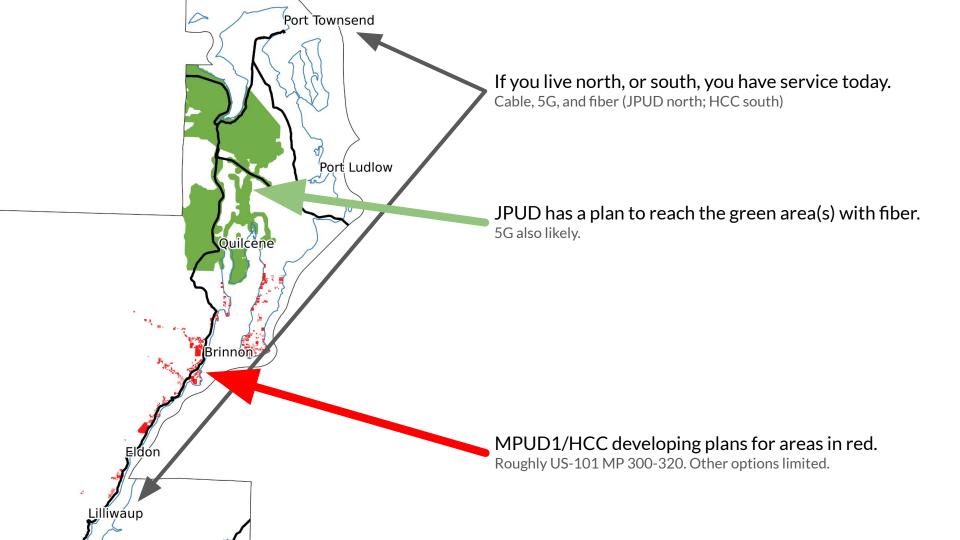
## Service must be fast, affordable, and reliable.

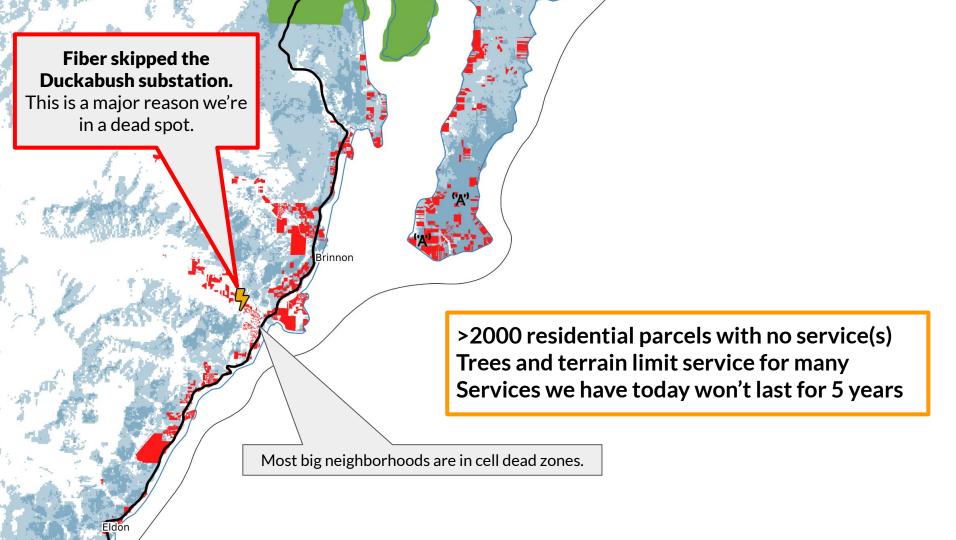
### Who are we?

- Community organization from Jefferson and Mason Co.
  - Independent and not connected to any company or PUD
  - Have worked in technical and public utility sectors
- Started in 2016, helped attract first new service (NOPDC)
- Relaunched in 2021 to ensure funding doesn't skip us again
  - Collect detailed data to show the needs
  - Advocate for service with public, private companies (tonight!)
  - Help local households navigate the choices they have today

## What is our goal?

- Service to families and businesses who need it
  - Technology can be different wired, wireless, and satellite OK
- Speeds, latency, and data caps meet standards
  - Now  $25/3 \rightarrow$  Build  $100/20 \rightarrow$  Future 100/100
  - Good enough to use for video and voice calls
  - Something that will last
- Accessible pricing (national average \$67)
- Reliability
  - Get what you pay for
  - Works when you need it (not 2-6am)



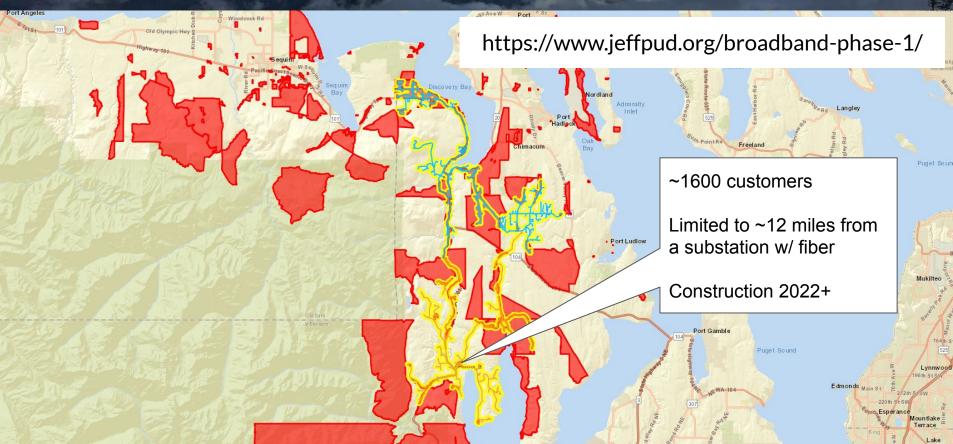


## What service is here today (or soon)?

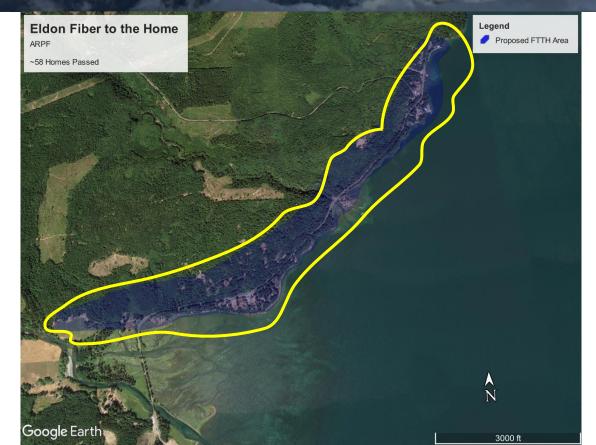
Tech	Speed	\$ / mo	Lag	Limits
<b>DSL</b> CenturyLink	6 / 0.66 Legal disclosure	N/A	50ms	No longer sold
Geo Satellite ViaSat, Hughes	18/3 Speed test	\$300	600-700ms	High price, small data caps (150Gb)
Cellular T-Mobile, Verizon	<b>37 / 8</b> Legal disclosure	\$60	40-70ms	Rural 5G is ≤2x faster than 4G Most neighborhoods in dead zones
Microwave NOPDC	40/20 Advertised	\$120	20-60ms	Limited coverage, reliability Speed upgrades may come in future
Low Satellite Starlink, Kuiper	<b>97 / 14</b> Speed tests	\$100	40-60ms	Limited coverage, not yet available Variable speeds

## WA State Broadband Office

## **Jefferson PUD**



## MPUD1 + HCC - Eldon



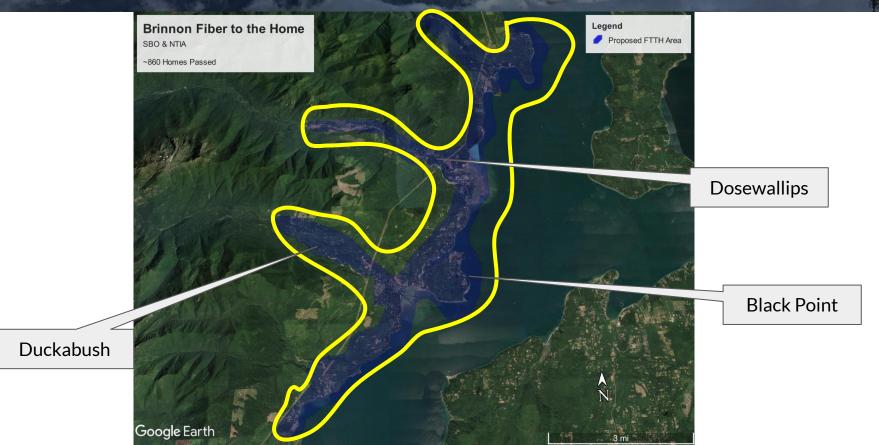
## MPUD1 + HCC - Colony Surf



## MPUD1 + HCC - Triton Cove



## MPUD1 + HCC - Brinnon Area



## What you can do to help

- Take the surveys to show your needs and current speed
  - West Canal Community Broadband local data helps us move faster
  - Washington State
  - FCC Apple or Android Apps

#### • Share the word with your neighbors

• Sign up for Emails to get updates

#### • Write in to show your support

• See the handout

# **Community Q&A**

# Appendix

## **T-Mobile Coverage (North County)**

Fiber connected towers make it easier to add speed and capacity to the network.

4G speeds in Port Townsend can already exceed 75mb!

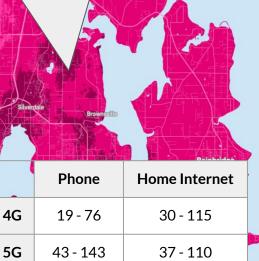
Single tower with "Ultra Capacity 5G" shows limited reach from trees and terrain.

14	Phone	Home Internet
4G	19 - 76	30 - 115
5G	43 - 143	37 - 110

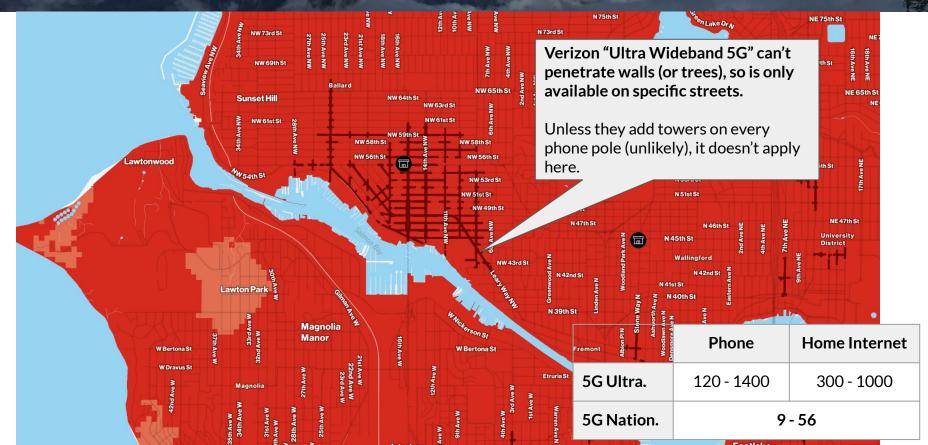
## **T-Mobile Coverage (South County)**

Bright colors are LTE-only, and will not support home users.

Most big neighborhoods in LTE-only zones, which won't get home Internet! Dark areas are "Ultra Capacity 5G," which is capable of fast, unlimited home access.



## **Verizon Ultra Wideband Coverage (Seattle)**



## **Verizon Coverage (South County)**

Most big neighborhoods in LTE-only zones, which won't get home Internet!

The best service available is "**National 5G**," which is shared service with LTE!

98320

	Phone	Home Internet
5G Ultra.	120 - 1400	300 - 1000
5G Nation.	9 - 56	
4G	9 - 56	20 - 50

### Is fiber the only answer? Yes and no.

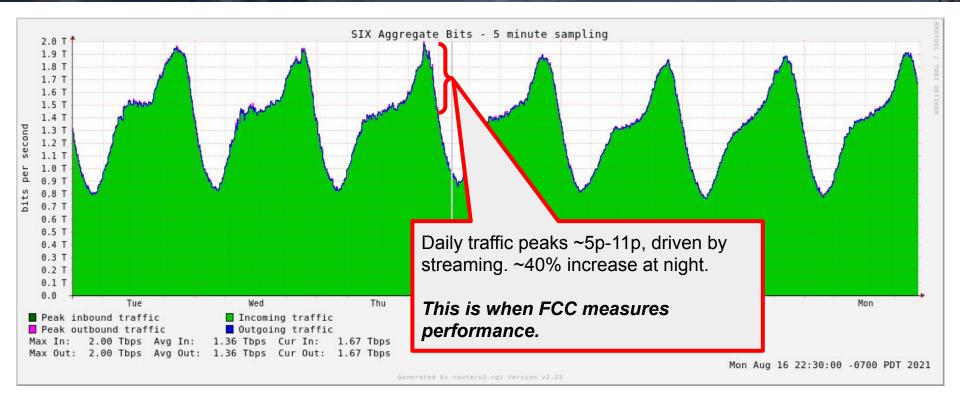
#### • Long distances need fiber

- Need more bandwidth than fiber can provide
- Wireless interference increases too much with distance
- Wireless 10g @ 7 miles < Fiber 100g @ 1000's of miles
- Shorter distances can use wireless
  - Copper 1g: ~1/10 mile
  - Wireless 1g: ~1/2 mile
  - Wireless 200m: 5-10 miles
- The service you get may be different based on your location
  - Some of the fastest ISPs are wireless (Google, Monkeybrains, Starry)

# **NOPDC Monthly Pricing**

Speed	Wireless	Fiber
7/1	\$50	
20/1	\$70	Not available
40/20	\$120	
50/50		\$50
100/100	Not available	\$70
1000/1000		\$90

## Networks need to work when we need them



## "Cable cutting" / Money saving ideas

#### TV

- Locast Live broadcast TV (free)
- Hulu / Youtube TV / Sling Satellite/Cable TV alternatives (\$50-70/mo)

#### Telephone

- Verizon / AT&T / T-Mobile WiFi calling improves cell coverage at home (free)
- Ooma / Vonage Landline phone (\$5-20/mo)