

#### State of Broadband

October 21, 2020

Alaska State Board of Education & Early Development

#### Alaska Telecom Association

























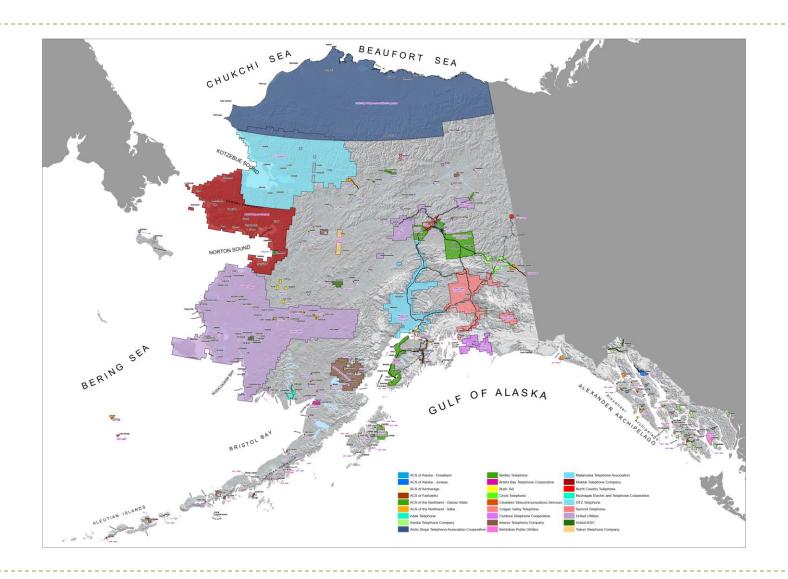




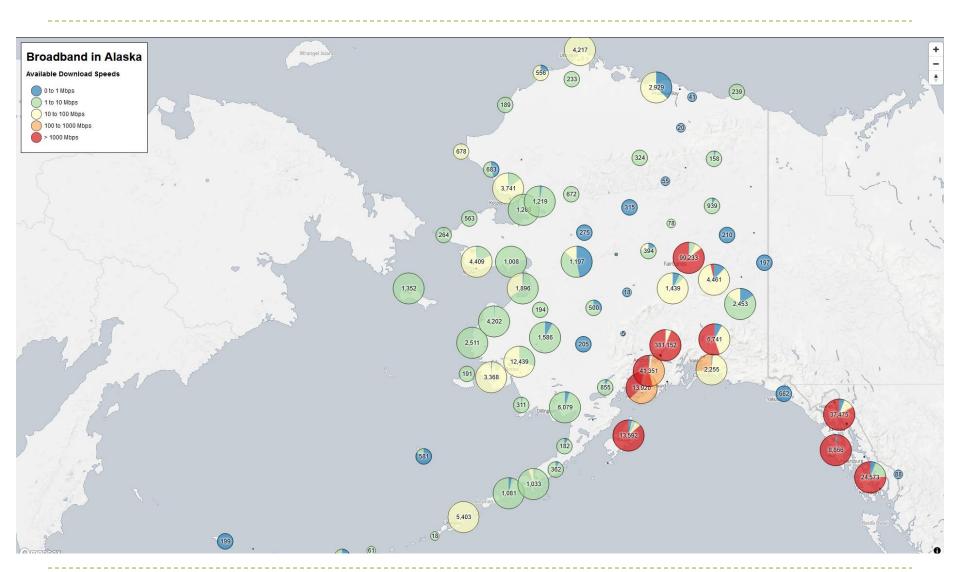


an American Broadband company

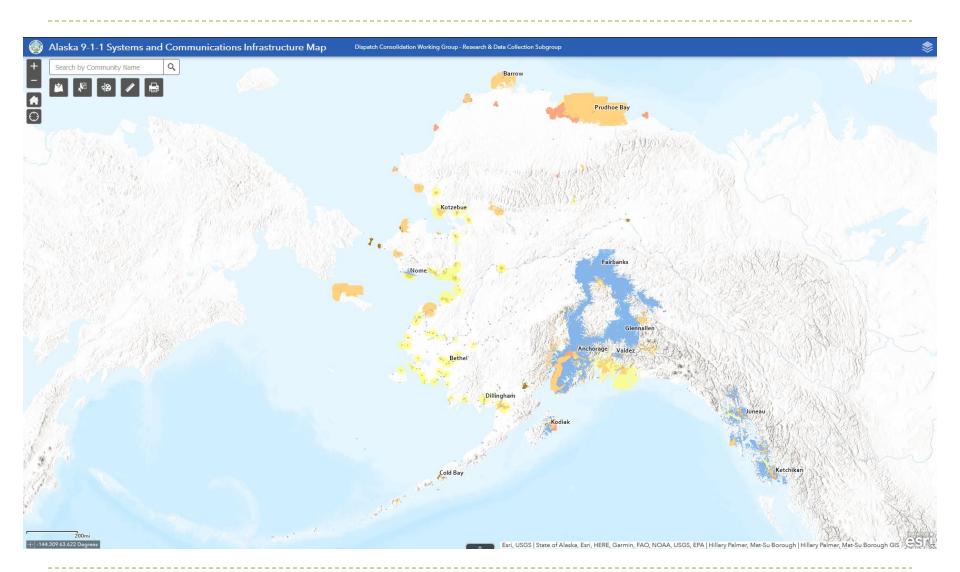
#### Alaska Telecom Association



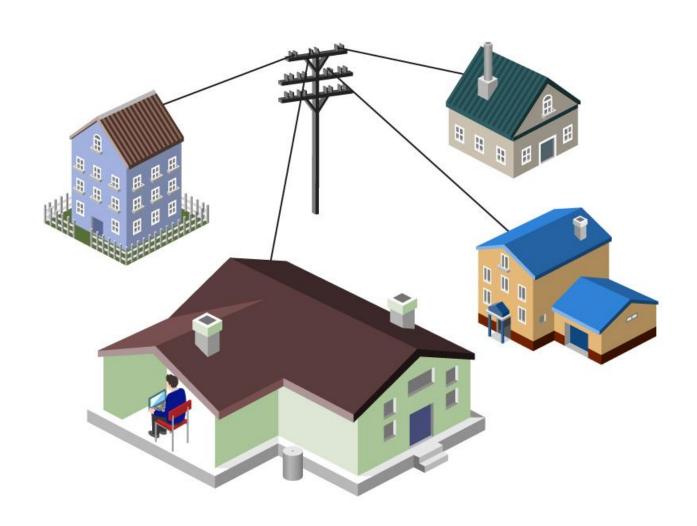
## Fixed Broadband Coverage



#### Alaska Telecom Association

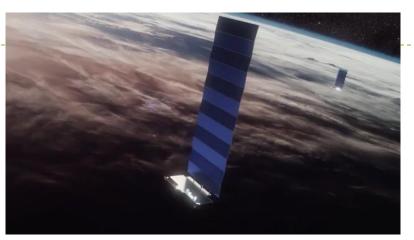


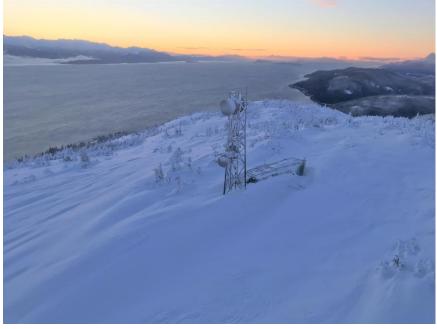
#### Last Mile



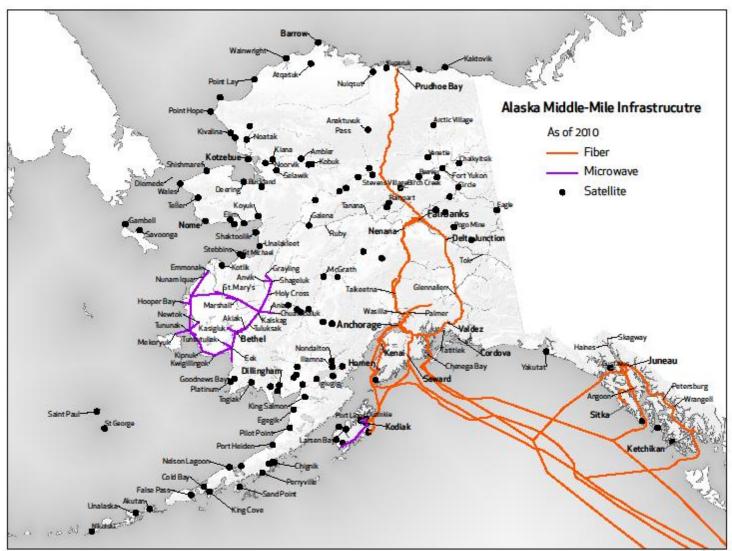
#### Middle Mile



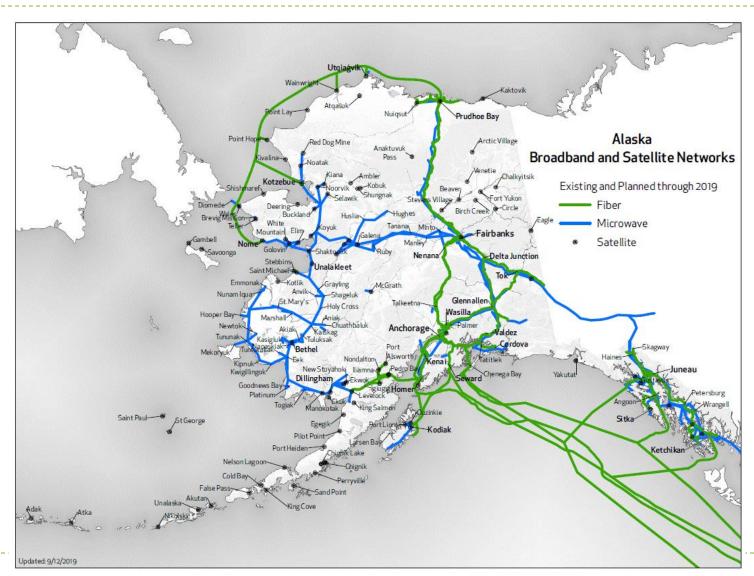




## Middle Mile is Key - 2010



#### Middle Mile is Key - 2019



#### **Broadband Expansion**

▶ 118,813 locations upgraded/new broadband by ATA members since 2015

- Projects completed in 2020 by:
  - Copper Valley Telecom
  - Alaska Communications

• GCI

Technology > Devices > Communications 

Technology > Technology 

Technology > Devices > Communications 

Technology > Devices | Technology 

Technology > Technology 

Technology > Devices | Technology 

Technology | Technology 

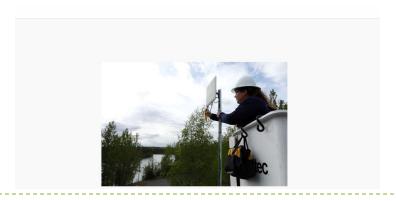
Technology > Devices | Technology 

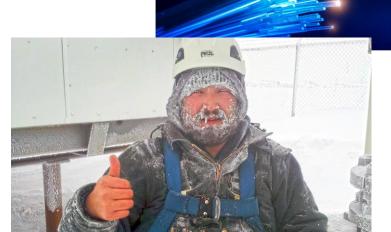
Technology 

Technology | Technology 

Technology

Over 16,000 Rural Alaskans Get Access to High-speed Internet, Thanks to Alaska Communications Broadband Network Expansion





TWITTER.COM/KDNNEWS

- New middle mile projects
  - KPU Telecom
  - Matanuska Telephone Association
  - Nushagak Cooperative
  - Cordova Telecom

#### **Nushagak Cooperative announces significant** increase to internet capacity for members

By TYLER THOMPSON + AUG 6, 2020



The co-op's microwave project is complete, and it is now testing data capacity and moving members to the new packages.



#### Undersea cable lands at Mountain Point

WWW.KETCHIKANDAILYNEWS.COM

KPU boosts data capacity with AK's 1st fiber-optic cable connected to Canada



stallation of a fiber-optic cable at Mountain Point. The barge Empire 45 arrived early Thursday morning with tugs Arctic Taglu and Island Tugger. Crews connected the cable from Prince Rupert to Ketchikan at a recently constructed communications hub at Mountain Point. Fiber-optic cable was unraveled from a large orange spool located at mid-ship





Above, cable is unraveled from a large spool, lo cated topside at mid-ship, before being the stern of the barge and onto the seab

At left, a Westpark Electric technician monitors the distribution of a fiber-optic cable on Thurs-day off the stern of the barge Empire 45 in Re-

Daily News Staff Writer At around midnight Wednesday, the Ketchikan ablic Utilities new undersea fiber-optic cable aded at Mountain Foint via barge.

The cable's installation had begun 100 mile oway at Dundas Island, northwest of Prince Ruert, then was laid along the sea floor on its way Ketchikan. The operation was delayed a few ays when it had to hunker in rough weather at on Entrance, but all else ran smoothly, accord

bonds for the project, and the Ketchikan City Council authorized the bond sale in April. The contract for the project was awarded to Westpark Electric Ltd., which, according to infor-

ne explained, and it's armoured with several lay ers or protective custing, its inner core is packet with 48 hollow glass fibers that are thinner than a human hair and encased in protective material. "The purpose of the fiber is to allow a laser or both ends to send data back and forth through



The submarine fiber-optic cable is shown spooled aboard the barge Empire 45.



AlCan ONE Completed, Linking Alaska to Canada and U.S.

Hubs via First Terrestrial Fiber Network

Posted on May 27, 2020 by Carl Weinschenk Share

Fiber Broadband

Regional Fiber Network

Home » AlCan ONE Completed, Linking Alaska to Canada and U.S. Hubs via First Terrestrial Fiber Network



MTA Fiber Holdings has finished and fired up the Alaska Canada Overland Network (AlCan ONE), which the company says is the only all-terrestrial fiber network connecting Alaska and the United States.

#### ReConnect Pilot Program Round 1

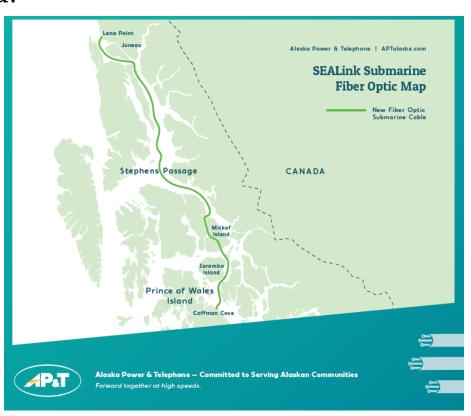
Dec. 3, 2019 USDA awards Cordova Telecom \$18.9M grant to connect Yakutat



#### ReConnect Pilot Program Round 2

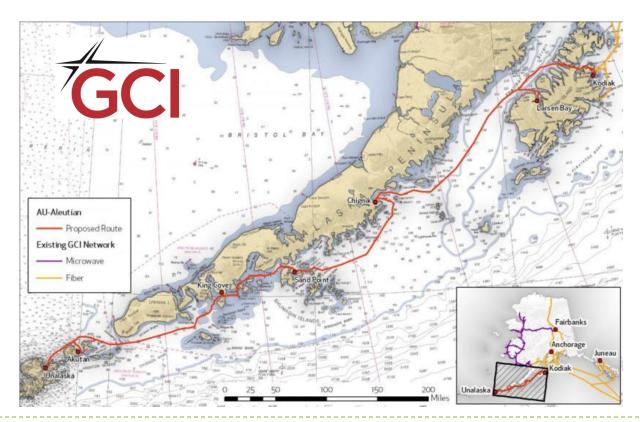
October 12, 2020 USDA awards \$21.5M grant to Alaska Power & Telephone to connect Coffman Cove and Kasaan on Prince of Wales Island.





#### ReConnect Pilot Program Round 2

 October 12, 2020 USDA awards \$25M grant to GCI to build an undersea fiber connecting Unalaska, Akutan, King Cove, Sand Point, Chignik, & Larsen Bay



#### School Broadband Assistance Grants

# Helping Students by Helping Schools Reach 10 **25** Mbps

- ▶ SB74 signed March 26, 2020
- Emergency regulations adopted to support increase in FY21

#### What's next?

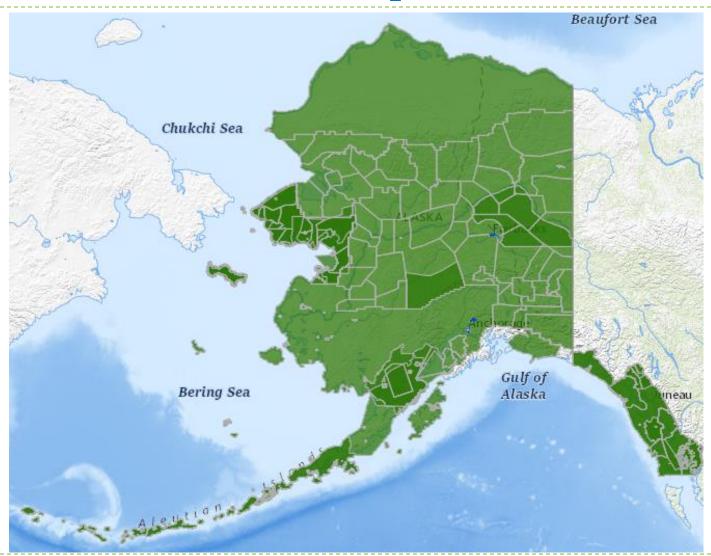
- Private investment
- Federal Programs
- State
- New initiatives

#### Low Earth Orbit Satellites - LEOS

- One Web
- Starlink
- Project Kuiper
- Telesat

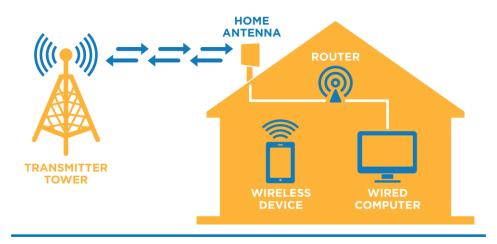


#### 2.5GHz Rural Tribal Spectrum



#### How can we use 2.5GHz in Alaska?

#### FIXED-POINT HIGH SPEED WIRELESS INTERNET —





#### **USDA**

- Community Connect
- ReConnect Pilot Program Round 3
- Distance Learning & Telemedicine
- Denali Commission

# Congress

House appropriators this year propose expanding USDA's ReConnect broadband program, clearing legislation through the chamber to give the department hundreds of millions of dollars. | Michael

Bocchieri/Getty Images



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TRUMP FAQS | COVID-19 EFFECTS | WHO'S DYING | CASE COUNT





America's digital divide is an emergency

#### Contact

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