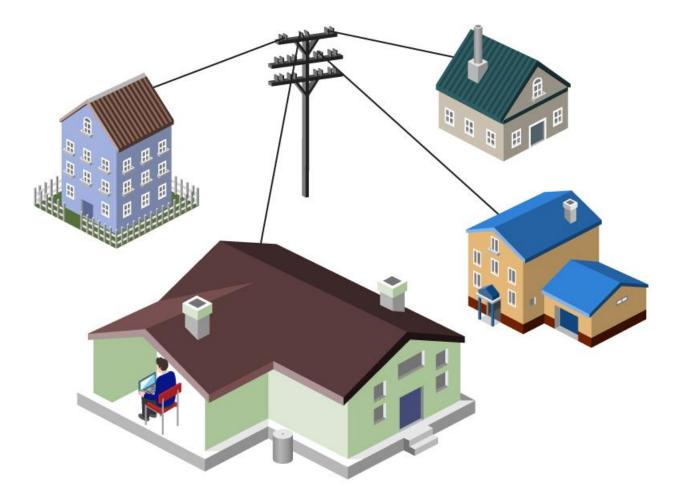


### State of Broadband

April 28, 2021 House Labor & Commerce Committee

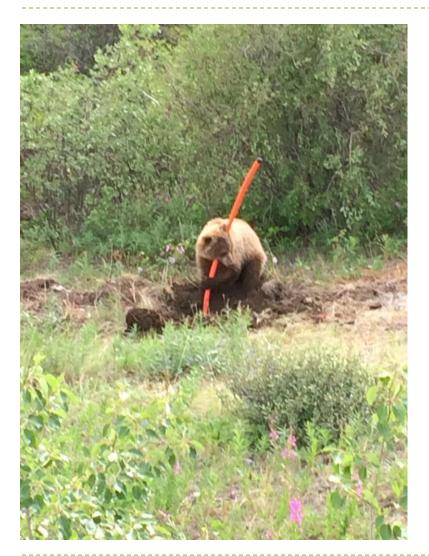


### Last Mile



Alaska Telecom Association

# Middle Mile - Fiber





# Middle Mile - Microwave



Alaska Power & Telephone Microwave Tower, Turn Mountain

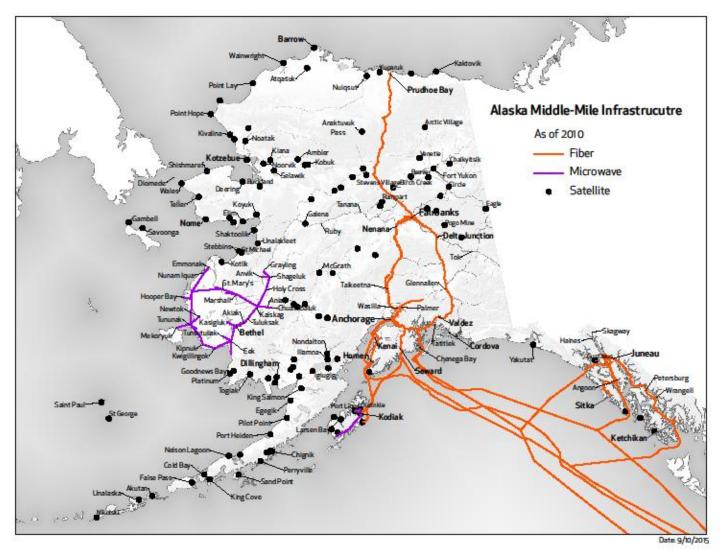


GCI TERRA Microwave Tower, Cape Nome

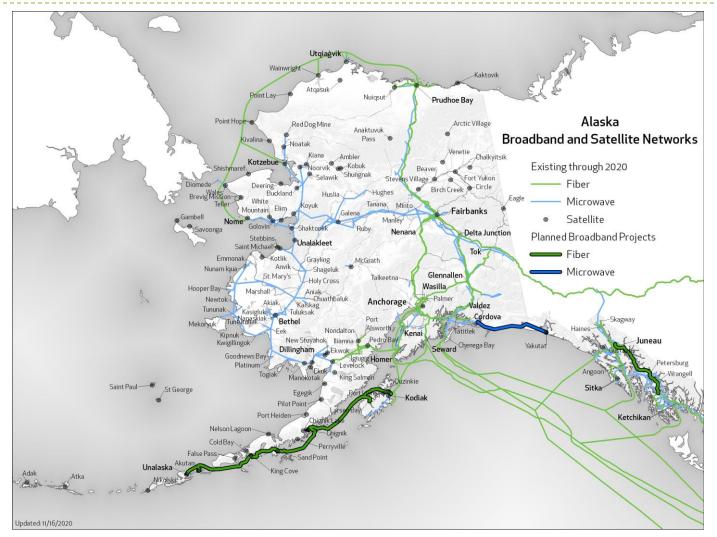
# Middle Mile - Satellite



## Middle Mile is Key - 2010



## Middle Mile is Key - 2020



### Last Mile Expansion

- Over 50,000 locations upgraded/new broadband by ATA members since 2015
- Projects:
  - Alaska Communications
  - Alaska Power & Telephone
  - Copper Valley Telecom
  - GCI



#### **BROADBAND THAT MATTERS: TATITLEK**

Copper Valley Telecom has released the fourth video in a series showcasing the importance of Broadband Internet in rural Alaska. This video highlights CVT's 2020 project to deliver 25/3 broadband connectivity to the Native village of Tatitlek. Copper Valley Telecom's broadband internet is helping rural Alaska share their culture.



#### 10 PAGES

By DANELLE LANDIS Daily News Staff Weiter At around midnight Weitersday, the Ketchikan Public Utilities new undersen fiber-optic cable landed at Mountain Point via barge. The cable's installation had begun 100 miles away at Dundas Island, northwest of Prince Rupert, then was laid along the sea floor on its way to Ketchikan. The operation was delayed a few days when it had to hunker in rough weather at Dixon Entrance, but all else ran smoothly, accord

City of Ketchikan voters in October approv the sale of up to \$11.5 million in KPU reven the same of up to \$2.5 minutes in ar O revenue 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-

nation at westparkelectric.com, is located in

the hollow fiber - through the hollow glass tube - and the laser is sending data at the speed of

ing the end of the

Cushing said. 'Incredible amounts

vay back to Canada by the early af See 'Fiber-optic cable' page

mine Thursday Coshing de ribed the span and purpose of the operation. The cable itself is 3.5 inches in diameter, Cush ing explained, and it's armoured with several lay ing explaining, and it's armoured with several al-ers of protective casting. Its inner core is packed 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 lasse on both ends to send data back and forth through

ng to KPU Telecom er Ed Co

Hone British Columbia

# New Middle Mile

- Alaska Power & Telephone
- Cordova Telecom
- GCI
- **KPU** Telecom
- Matanuska Telephone Association
- Nushagak Cooperative

#### 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

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



ark Electric crew moves between shore and barge on Thursday during in 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 and was fed off the stern of the barge





housed in a concrete vault. They d to test the cable [fo] for continuity nd of the onshore cable, and if evo well, their job would be complete and the

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 Revillagigedo Channel at Mountain Point

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

telecompetitor

### 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 Broadband

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.

10

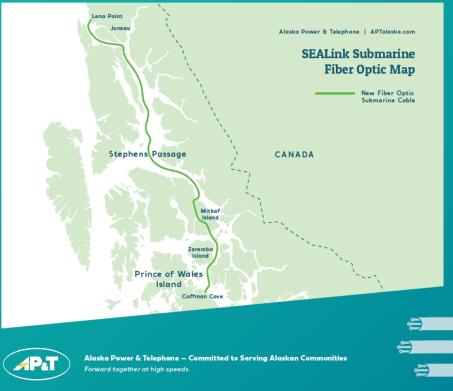
 Dec. 3, 2019 USDA awards Cordova Telecom \$18.9M grant to connect Yakutat





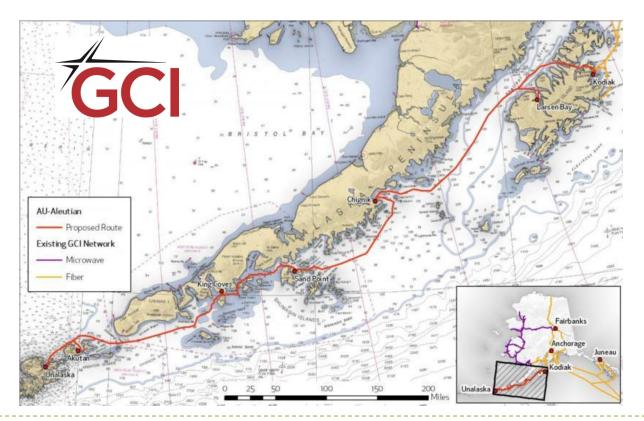


 October 12, 2020 USDA awards \$21.5M grant to Alaska Power & Telephone to connect Coffman Cove and Kasaan on Prince of Wales Island.





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



 November 12, 2020 USDA awards \$5.3M grant to ASTAC to connect Kaktovik.



### Kaktovik Microwave Project Scope



- November 12, 2020, USDA awards \$4.1M grant to TelAlaska & \$1.9M to MTA.
  - Brevig Mission
  - Teller
  - Caswell





an American Broadband company

## Low Earth Orbit Satellites - LEOS

- Starlink
- One Web
- Project Kuiper
  Tologot
- Telesat



# What's next?

### Private investment - \$1.2B

### Federal

### State

Congress





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