

### **Broadband Momentum**

December 7, 2022 Alaska Municipal League



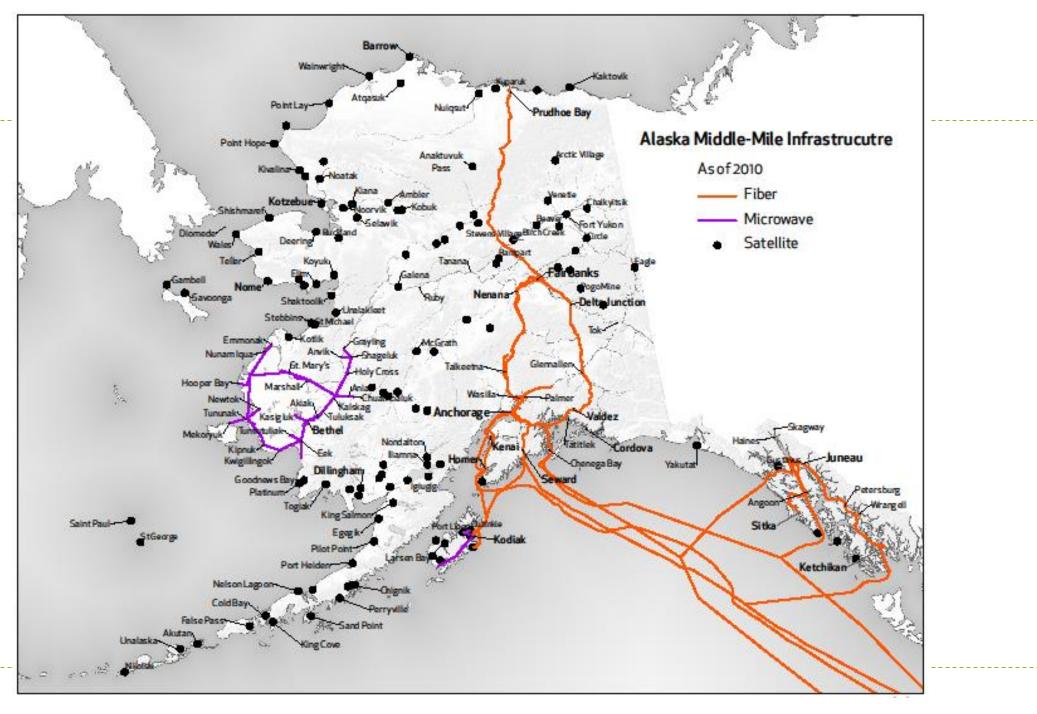
# Momentum 2017-2021

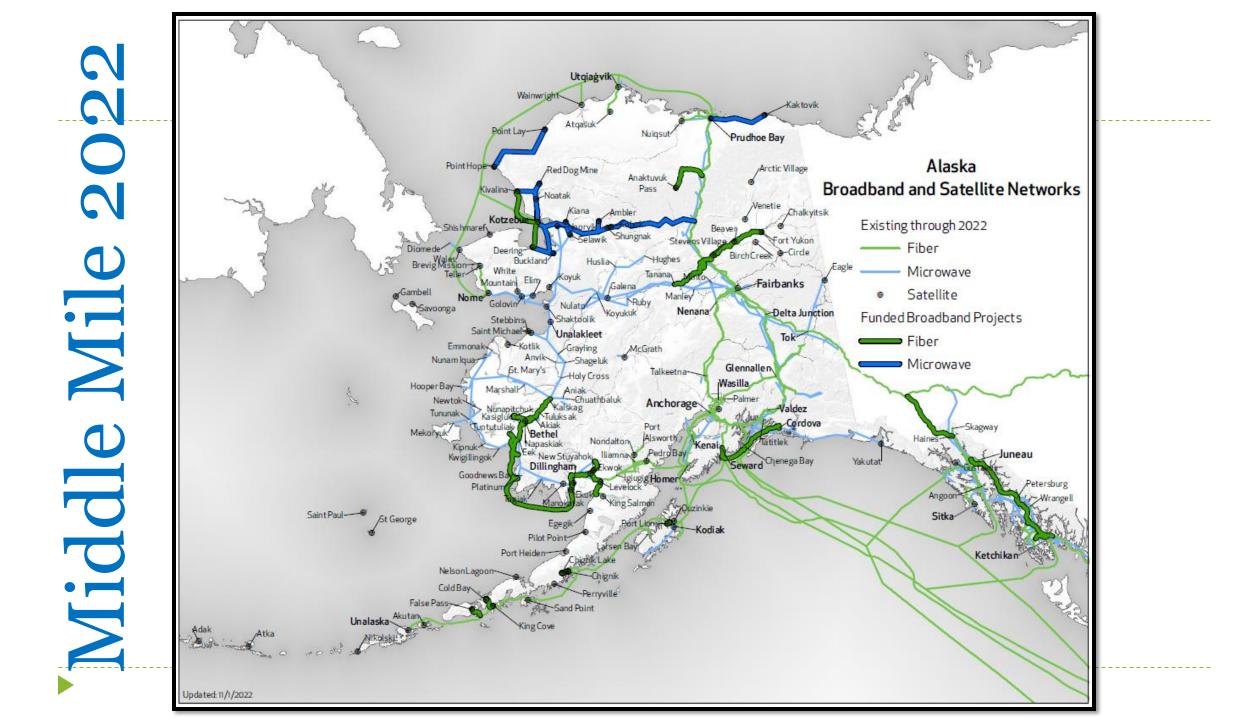
- 78,000+ locations upgraded/deployed
- 115,000 Alaskans improved wireless service



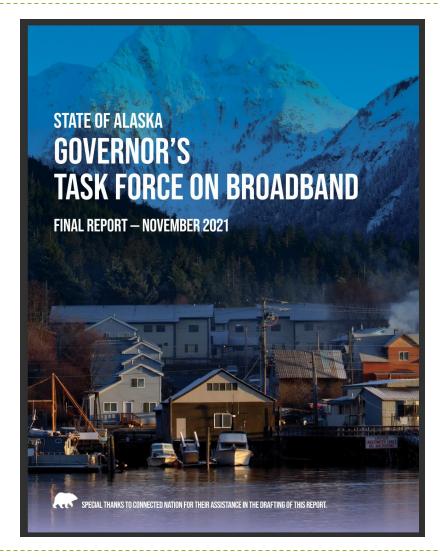








## Governor's Task Force on Broadband



- Administrative Order 322
- Multi-stakeholder
- 8 Tasks
- 2 Subgroups
- ▶ 32 Public Meetings
- 36 Recommendations
- Notable Document Award
- gov.alaska.gov/broadband

# Define Gaps

Speeds:

- > 25/3Mbps = unserved
- 100/20Mbps = underserved
- Latency: less than 100 milliseconds, sufficient for real-time applications like 2-way video
- Data usage: comparable to urban markets
- Reliability: 24/7 service with minimal downtime and resistant to single points of failure



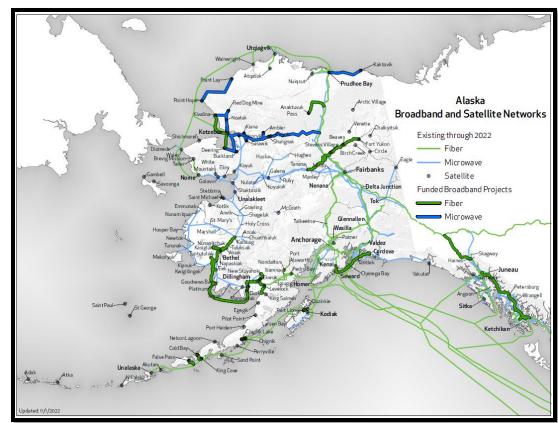
## Target the Unserved & Underserved

Robust broadband services should be available to **all Alaskans**. Policymakers should expand buildout objectives to deploy infrastructure to **meet the** needs of unserved and underserved locations across Alaska.



# Identify Middle Mile Needs

Broadband policy and program analyses should include data gathering and research to **identify where** additional middle-mile **capacity is needed** to meet established or potential last-mile service availability speed targets, recognizing that any established standards will need to **evolve** with the growing demands of technology and consumer usage over time.



## Give Preference to Fiber Middle Mile

Due to its unparalleled bandwidth, latency, upgradeability, and reliability, **fiber-optic cables** should be deployed wherever feasible and practical to facilitate middle-mile connections.



# HB363 – 32<sup>nd</sup> Legislature

- Establishes
  - Office of Broadband
  - Broadband Parity Adjustment
  - Statewide Advisory Board
    - Technical Working Group
- Prioritizes
  - Unserved
  - Underserved
  - Anchor Institutions



### **ReConnect Grant Program**

- Loans and grants to provide funds for the costs of construction, improvement, or acquisition of facilities and equipment needed to provide broadband service in eligible rural areas.
- ▶ 14 awards, more likely
- ▶ \$305M grant, \$53M matching
- > 5,000+ households in rural Alaska
- Fiber and microwave technologies
- Round 4 applications under review



#### NICEY - Yakutak

- "New Internet Connection for Everyone in Yakutat"
- Cordova Telecom \$18.9M grant to connect Yakutat
- Microwave network



#### Aleutian Fiber - GCI

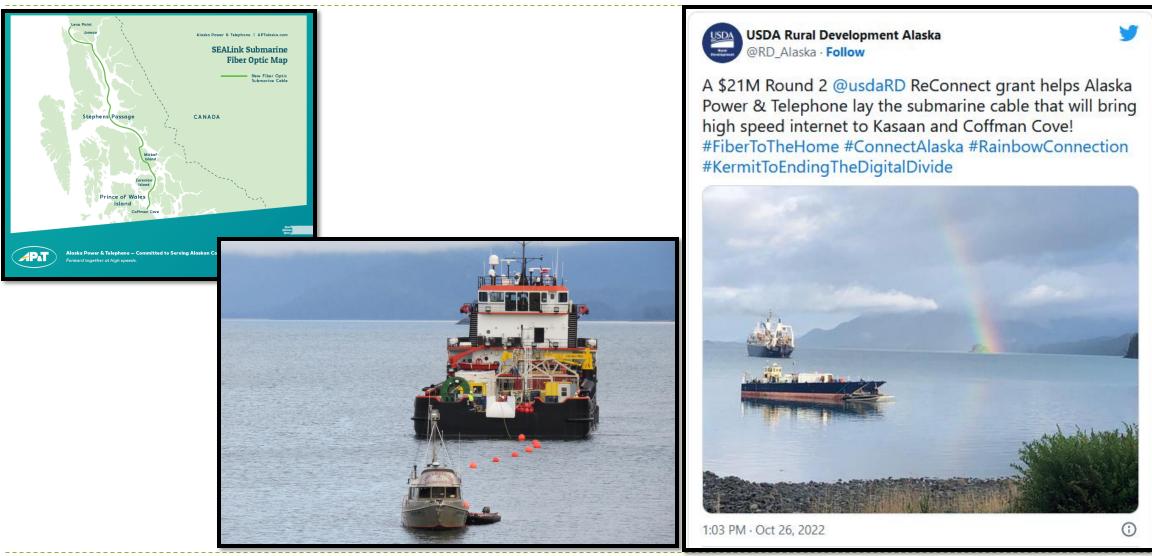


### Atqasuk Fiber Build - ASTAC



Alaska Telecom Association

#### SEALink - Alaska Power & Telephone



Alaska Telecom Association

#### Mukluk Telephone dba Fastwyre Broadband - Teller

- ▶ \$4.1M for fiber to the home network
  - Brevig MissionTeller
- > 70 miles fiber
- Microwave



#### Tanana Chiefs Conference

Huslia, Alatna, and Allakaket
 Alaska Native Village Statistical
 Areas as well as the socially
 vulnerable communities of Yukon Koyukuk Census Area.

- ▶ \$30.3M
- Fiber network



MURKOWSKI.SENATE.GOV

Interior Alaska Receives \$30 Million to Deploy High-Speed Internet | U.S. Senator Lisa Murkowski of Alaska

### Alaska Power & Telephone

▶ #1

\$33M grant, \$11M match

Alaska Power & Telephone

Fiber project to serve
 Klukwan and Skagway

▶ #2

- > \$29M grant, \$9.8M match
- Fiber project to serve
   Klawock, Craig, and Hyder



#### ASTAC

fiber

▶ \$31M for fiber project to Anaktuvuk Pass and Point Lay Replace satellite backhaul with





Arctic Slope Telephone Association Cooperative (ASTAC) 28 October at 10:51 .

Sometimes we have to pinch ourselves that we get to work in one of the most beautiful places in the world - one of our own, Randy Dobbs, an ASTAC Contractor, snapped this masterpiece when he was in Point Lay earlier this month. Quyanag Randy!



Arctic Slope Telephone Association Cooperative (ASTAC) **Business** service

Send Message

...

Alaska Telecom Association

#### Cordova Telephone Cooperative

- > \$21M grant, \$7M match
- Fiber project to Eyak and the Valdez-Cordova census area.
- Subsea fiber Cordova-Seward
- Village of Chenega



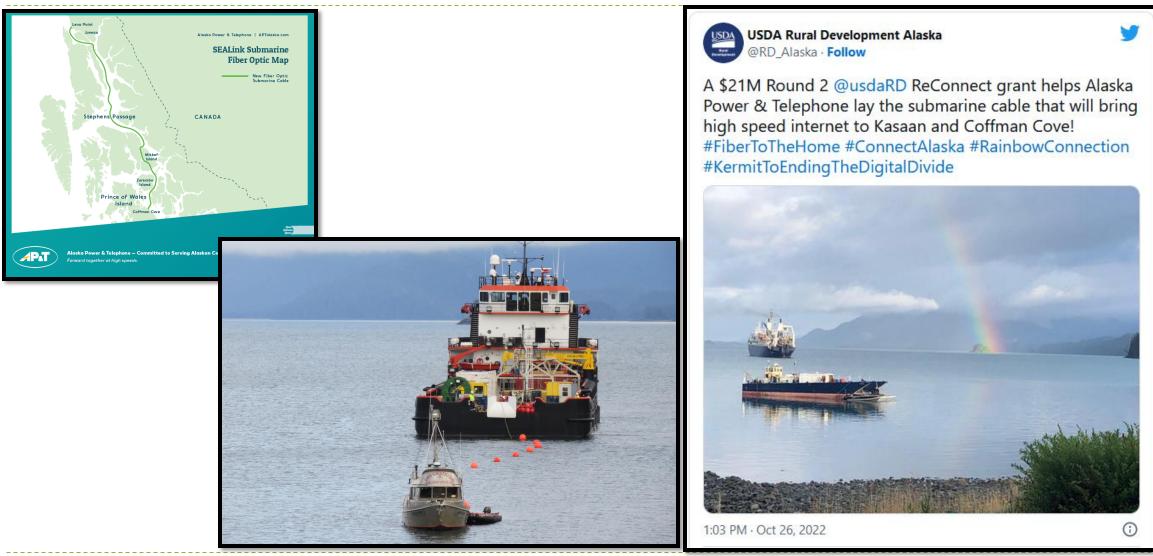
Cordova Telecom Cooperative (CTC) is pleased to announce it has been awarded \$21,404,940.00 in grant funding from the USDA's Rural Utility Service ReConnect Round 3 program to deliver Fiber-To-The-Home in Cordova, Alaska, and a submarine fiber line from Cordova to Seward with strategic branches to the FAA Johnstone Point site and the Village of Chenega.

#### ASTAC – Atqasuk Fiber Build



Alaska Telecom Association

#### SEALink - Alaska Power & Telephone



Alaska Telecom Association

#### Lynn Canal Fiber – Alaska Power & Telephone



Alaska Telecom Association

# Tribal Broadband Connectivity Program

#### NTIA

- \$1B first round, \$2B added from Bipartisan Infrastructure Law
- 2 categories, adoption & deployment
- Applications under review and curing, awards rolling basis
- Alaska 10 projects \$341M
- More coming





### TBCP – Doyon & Alaska Communications

\$50.7M to Doyon in collaboration with Alaska Communications to bring fiber to Fort Yukon, Beaver, Stevens Village, Rampart, and Tanana

1GB serviceAnchorage rates



Doyon, Limited and Alaska Communications Will Bring Affordable, High-Speed Broadband to Five Tribal Communities in Alaska

### TBCP – Calista & Alaska Communications

\$52.5M to Calista in collaboration with Alaska Communications to bring fiber to Lower Kalskag, Upper Kalskag, Tuluksak, Akiak, Akiachak, Kwethluk, and Napakiak.

- ► 1GB service
- Anchorage rates



## TBCP – Bethel Native Corporation & GCI

- \$42M to BNC in collaboration with GCI to bring fiber to Bethel, Platinum, Eek, Napaskiak, and Oscarville
- Connects with \$31M ReConnect grant to bring fiber to Atmautluak, Kasigluk, Nunapitchuk, Quinhagak, and Tuntutuliak
- ▶ 2GB service
- Affordable rates

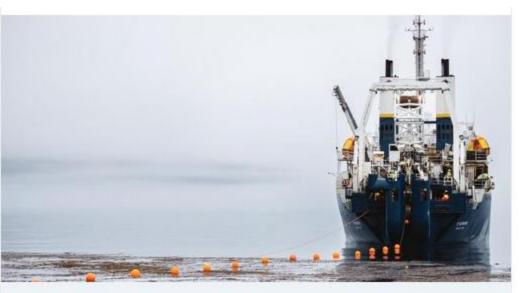


Bethel-area fiber broadband project gets a Yup'ik name; 'Airraq is a string used to tell stories'

### TBCP – Native Village of Port Lions & GCI

▶ \$29.3M to NVPL in collaboration with GCI to bring fiber to Chignik Lagoon, Chignik Lake, Cold Bay, False Pass, Ouzinkie and Port Lions. ► 2GB service

Affordable rates



Native Village of Port Lions awarded \$29.3M federal grant to bring urbanlevel internet speeds to six more remote communities

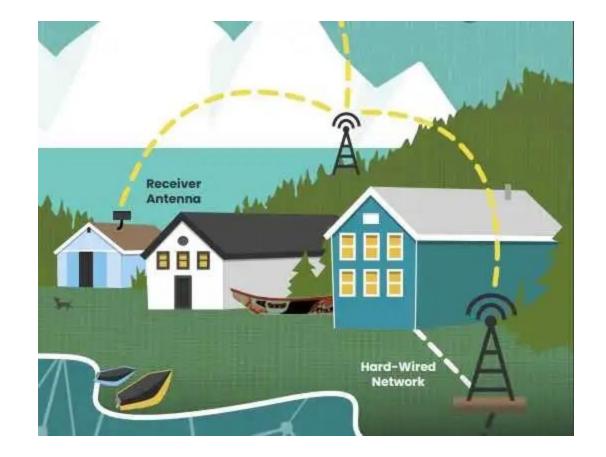
### TBCP – NANA Regional Corporation

- \$68.5M to NANA to bring fiber to the NW Arctic Borough
- 4 year, 680 miles submarine cable
- ▶ 1GB service



### TBCP – Tlingit & Haida

- \$49.9M to deploy fixed wireless and LEO service
- Minimum speed 25/3



### TBCP – Metlakatla Power & Light

\$10.5M to deploy fiber to the home
2 mile undersea cable
1GB service



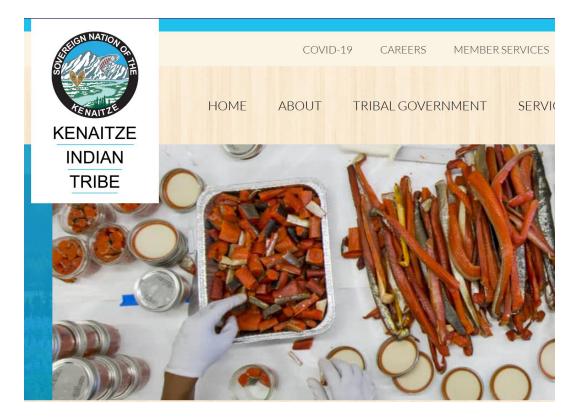
## TBCP – Choggiung, Limited

\$29.5M to deploy fiber to the home
100Mbps service
Middle mile fiber

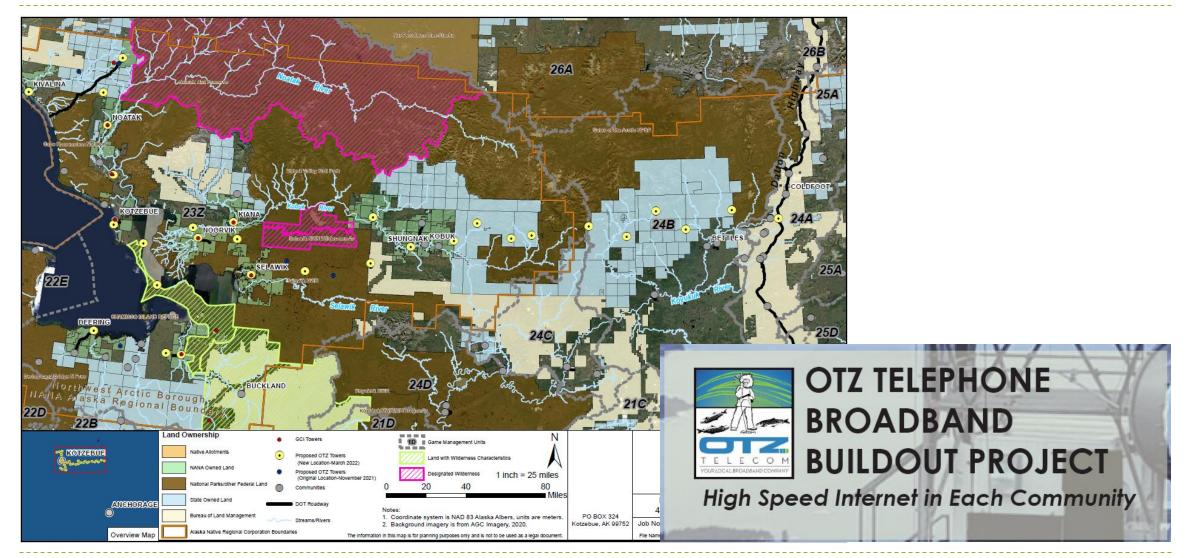


### TBCP – Kenaitze Indian Tribe

\$7M to deploy fiber to the home
Minimum 336Mbps service



#### **OTZ** Telephone Cooperative



Alaska Telecom Association

#### Alcan ONE – Matanuska Telecom Association



Alaska Telecom Association

### Ketchikan Public Utilities



### Infrastructure, Investment & Jobs Act (IIJA)

- \$42.45B Broadband Equity, Access, & Deployment (BEAD)
- \$14.2B Affordable Connectivity Program
- \$2.75B Digital Equity Planning, Capacity & Competitive Grants
- \$2B Tribal Broadband Connectivity Program
- ▶ \$2B ReConnect
- \$1B Enabling Middle Mile Broadband Infrastructure



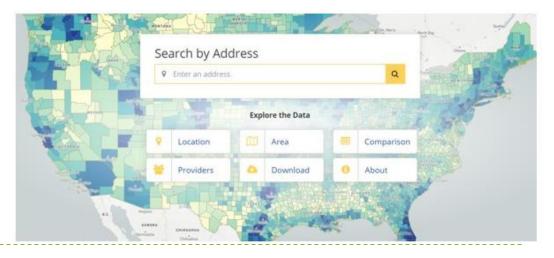
### Broadband Equity, Access & Deployment (BEAD)

- ▶ \$42.5B Nationwide
- NTIA funds directly to Alaska Office of Broadband
  - Allocation depends on new FCC maps
  - Grants for broadband deployment
    - Priority 1 = Unserved <25/3Mbps</p>
    - Priority 2 = Underserved <100/20Mbps</p>
    - Priority 3 = Anchor institutions
    - Adoption & acess
  - Requires 5-year plan
    - Delivers 100/20Mbps minimum service, scalable
    - Collaboration with local and statewide entities



# FCC Broadband Fabric Maps

- First-ever national dataset capturing individual locations that should have fixed broadband service availability.
- Input from state, local, and Tribal governments is essential to the success of the BDC. We invite these entities to actively engage with this effort."
- NTIA will use maps to calculate BEAD allocation first half 2023
- Challenge process underway
- Evolving, Alaska data improving



### Enabling Middle Mile Broadband Infrastructure

#### NTIA

Encourage the expansion and extension of middle mile infrastructure to reduce the cost of connecting unserved and underserved areas ... and to promote broadband connection resiliency"



#### Enabling Middle Mile Broadband Infrastructure

- Competitive grant program
- ▶\$1B Nationwide
- > 235/\$5.5B applications
- Awards March 2023



## Digital Equity Act

- Ensure that all people and communities have the skills, technology, and capacity needed to reap the full benefits of our digital economy.
- Planning funds for States and Native entities.
- Rasmuson Foundation State Administering Entity
- ▶ 306 Native entities
- \$2.75B Nationwide



## Affordable Connectivity Program

### **FCC**

- Subsidy of \$75/month for low-income families
- \$100 towards device
- Rigorous enrollment process
- ▶\$14.2B Nationwide

https://www.fcc.gov/acp

Helping Households Connect

CONNECTIVITY

AFFORDABLE

PROGRAM

## What's Next?

- Grant opportunities
  - Collaboration
- State Office of Broadband
  - Engagement
  - Planning
- Implementation
  - Permitting, supply chain, workforce
- Sustainability



## Contact

#### Christine O'Connor Executive Director <u>oconnor@alaskatel.org</u> (907) 570-6944 mobile



