Closing the digital divide in Alaska

Oct 15th | RDC



Agenda

Introduction

GCI in Alaska

Telecommunications challenges

GCI's Network



GCI in Alaska

GCI: Serving Alaskans for more than 40 years

- 1,800+ employees
- $5.1 billion invested
- Wireless, internet, long-distance services
- Serving more than 240 communities statewide

GCI is Alaska's largest telecommunications provider and has served communities across the state for more than 40 years.





Challenges & the Network

Big State. Big Challenges. Big Opportunities

Deployment & Operation of Networks Difficult in Alaska

- Vast distances, rugged terrain, harsh climate, and tough permitting regime
- High cost of deployment and operations

665,000 sq miles

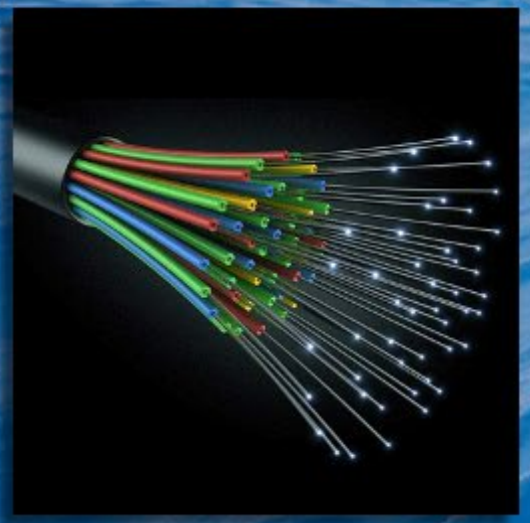
1/5 of total U.S. area

738,000 residents

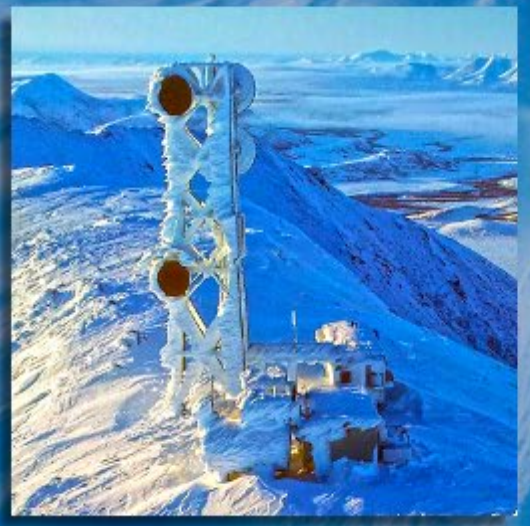
0.2% U.S. population



GCI Middle Mile toolkit



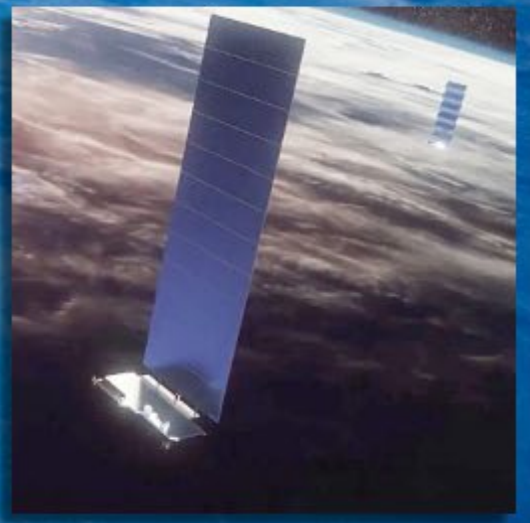
FIBER



MICROWAVE



GEO SATELLITE



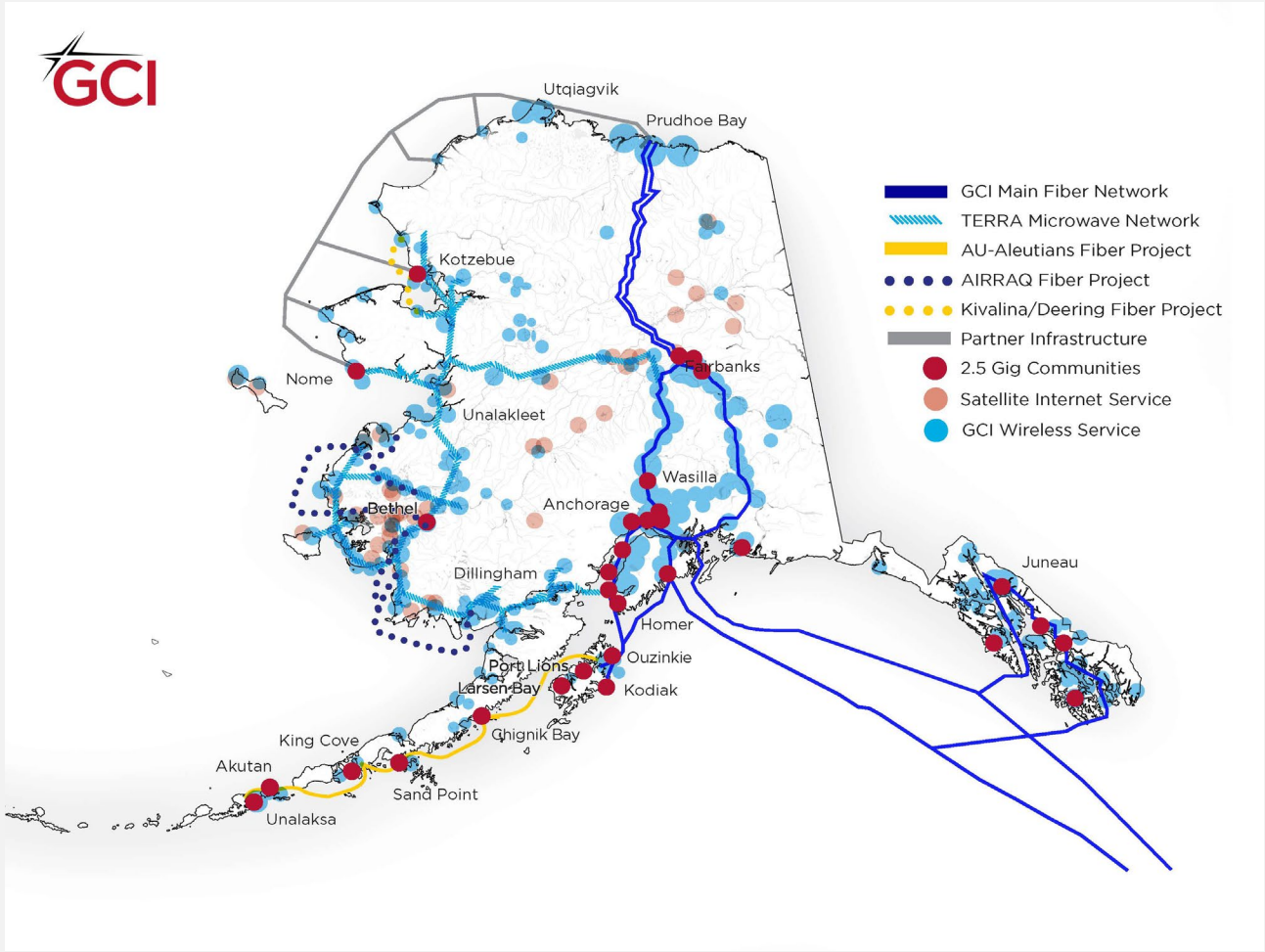
LEO SATELLITE

Alaska requires a big network

- 14,500 miles and counting of fiber-optic cable.
- 5,500 miles of marine fiber cable
- 3,400 miles of microwave statewide.
- 600+ wireless towers.
- 376 satellite Earth Stations.

97% of Alaskans live in GCI's service footprint and 81.3% have access to 2.5 gigabit broadband.

83% of Alaskans have access to 5G wireless service



Closing the digital divide in the Aleutians with AU-A

AU-Aleutians summary

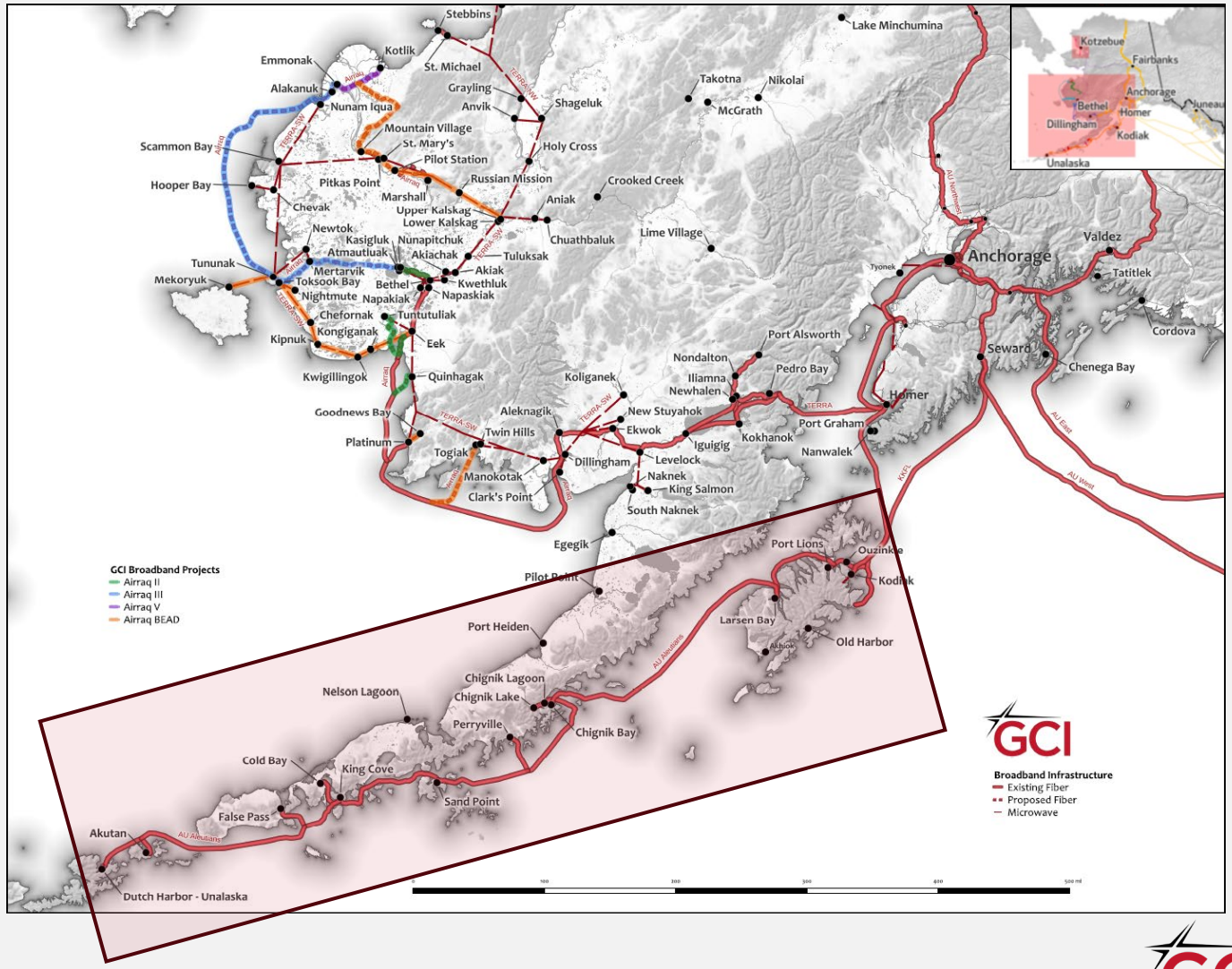
Tribal partner: Native Village of Port Lions (AU-A 2)

Federal partners: RUS, NTIA

- 13 Tribal communities to be served with 8,000 residents.
- 800-mile+ in middle mile fiber builds and FTTX last mile networks.
- 2.5 Gbps broadband plans offered in Anchorage.

Status

- Nearly complete, Cold Bay last community in construction phase



Closing the digital divide in the YK-Delta

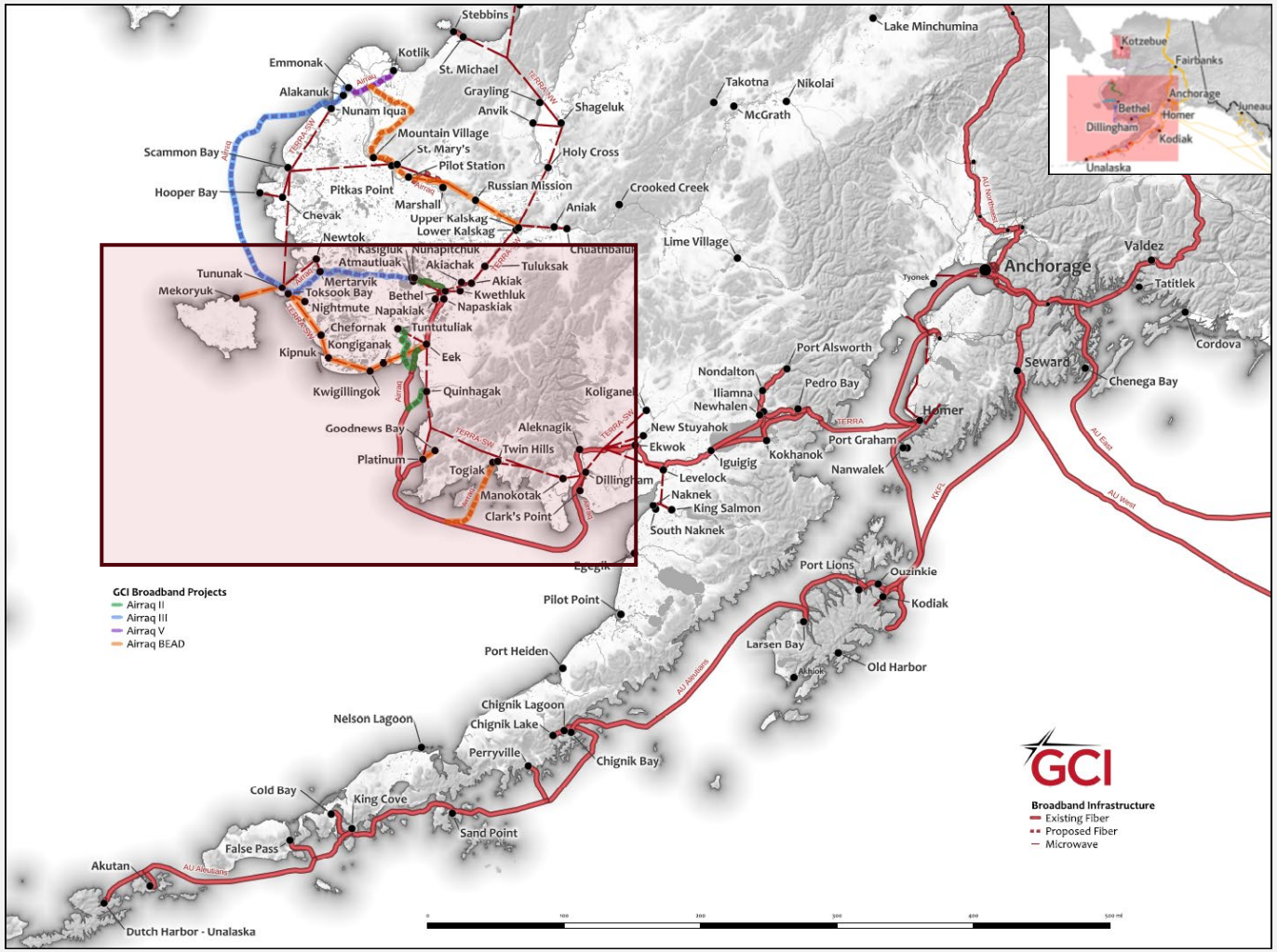
AIRRAQ Summary

Tribal partners: Bethel Native Corporation,
Federal partners: RUS, NTIA

- 17 Tribal communities to be served with 14,000, primarily Yup'ik, residents.
- 800-mile+ in middle mile fiber builds and FTTx last mile networks.
- Same consumer 2.5 Gbps broadband plans offered in Anchorage.

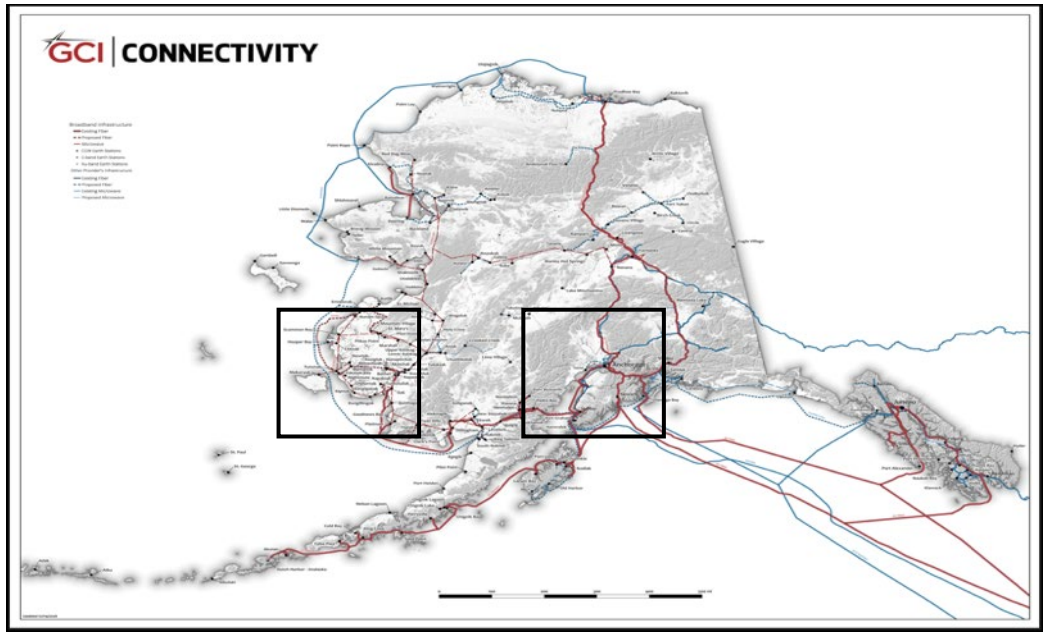
Status

AIRRAQ 1 is complete: Fiber service to Bethel, Napaskiak, Oscarville, Eek and Platinum.
AIRRAQ 2 work underway: Atmautluak, Kasigluk, Nunapitchuk, Quinhagak, Tuntutuliak, Tununak, Tooksook Bay and Emmonak.



BEAD

- **Awarded three grants totaling $121.2M in grant funding**
  - 18 communities across Yukon Delta, Yukon-Kuskokwim Delta, and Greater Anchorage
- **Built for Alaska's geography**
  - No single solution works everywhere in Alaska. These projects use a mix of technologies designed for each region:
    - Fiber connections directly to homes and businesses
    - Fiber middle-mile infrastructure where feasible
    - High-capacity microwave to extend connectivity to remote locations





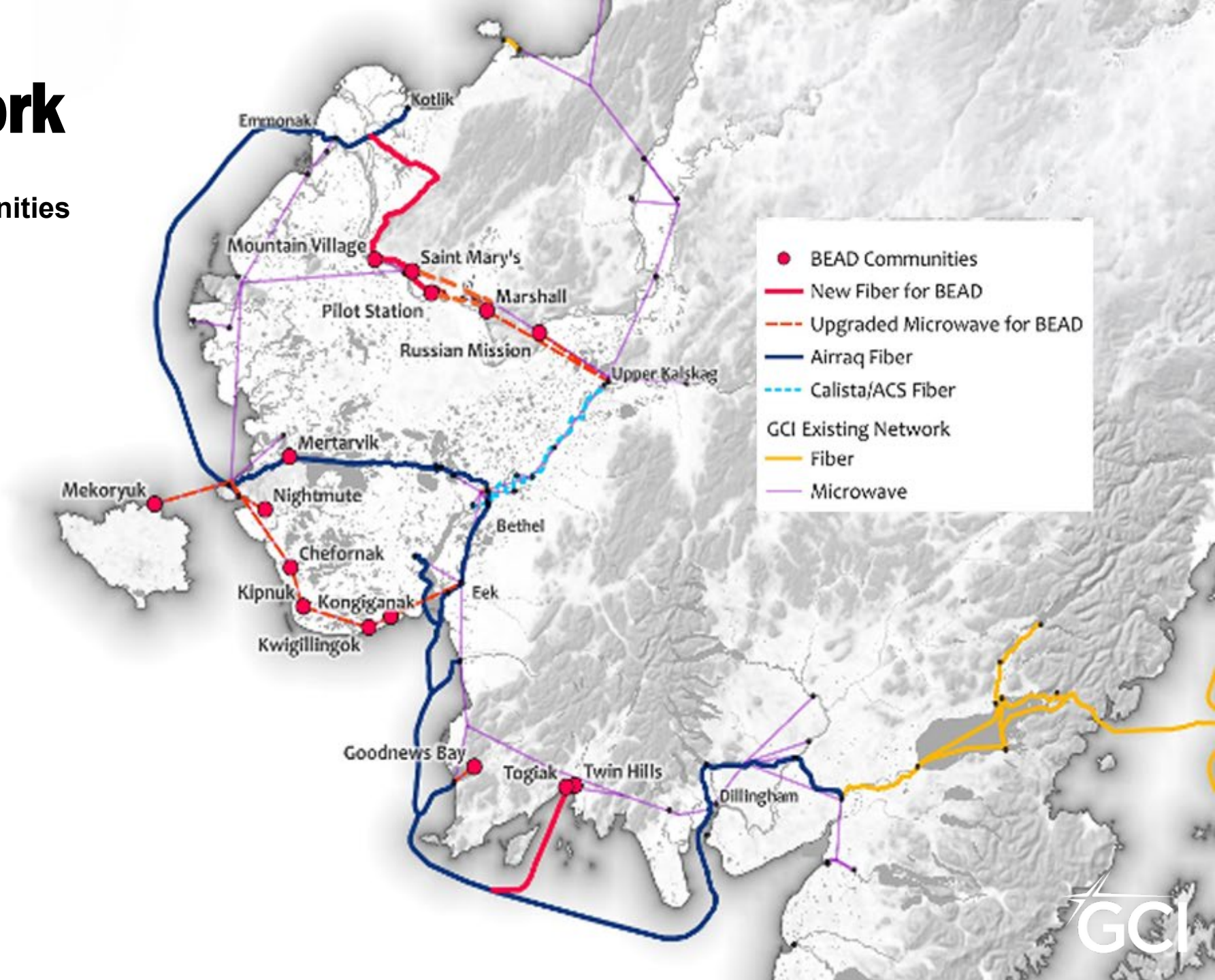





AIRRAQ Network

AIRRAQ BEAD 16 communities

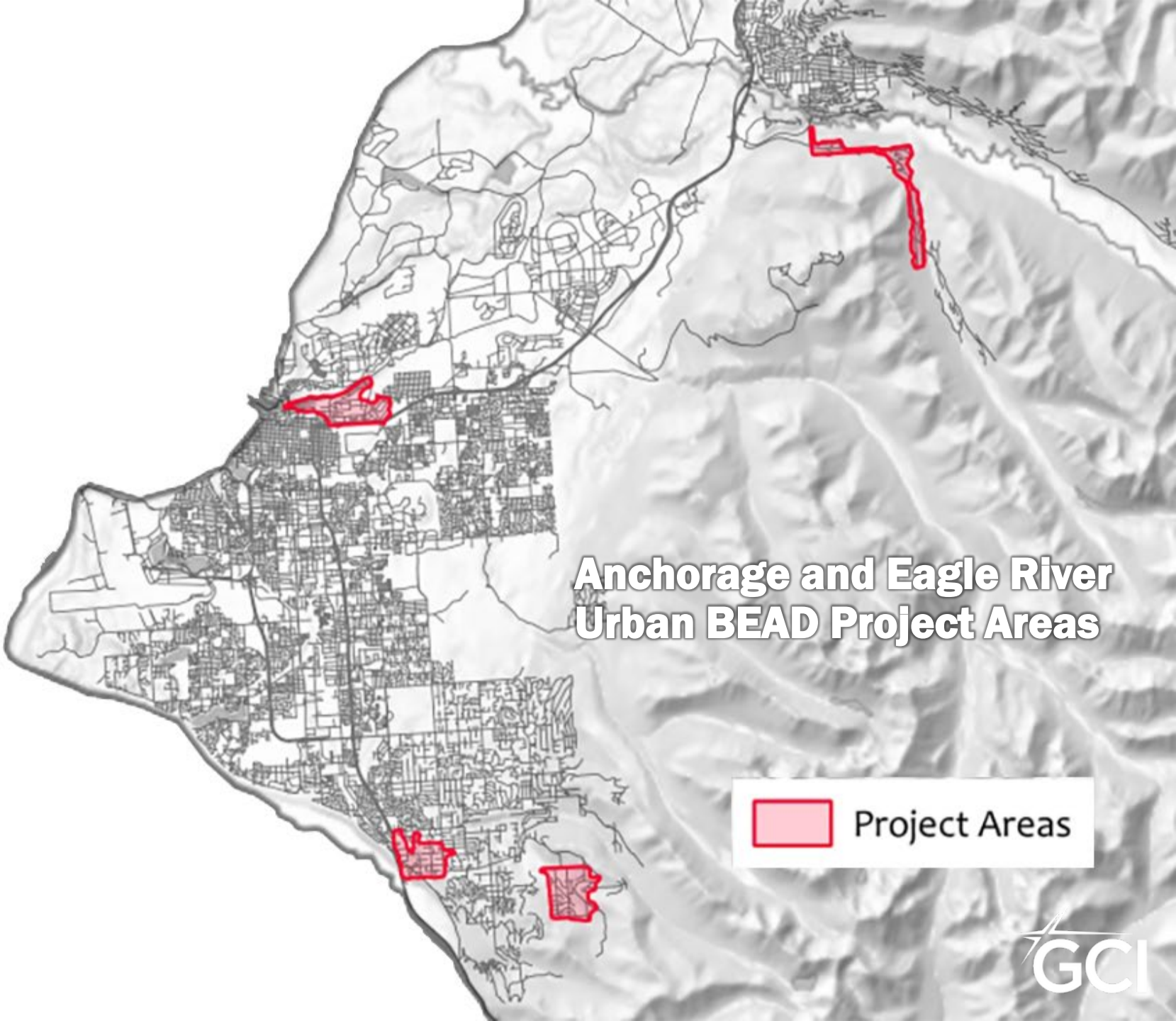
- Chefornak
- Goodnews Bay
- Kipnuk
- Kongiganak
- Kwigillingok
- Marshall
- Mekoryuk
- Mertarvik
- Mountain Village
- Nightmute
- Pilot Station
- Pitkas Point
- Russian Mission
- Saint Mary’s
- Togiak
- Twin Hills



BEAD Anchorage

Anchorage
- Ship Creek
- Rabbit Creek
- Bear Valley

Eagle River
- South Fork




Thank you!