

TERRA-Aleutian

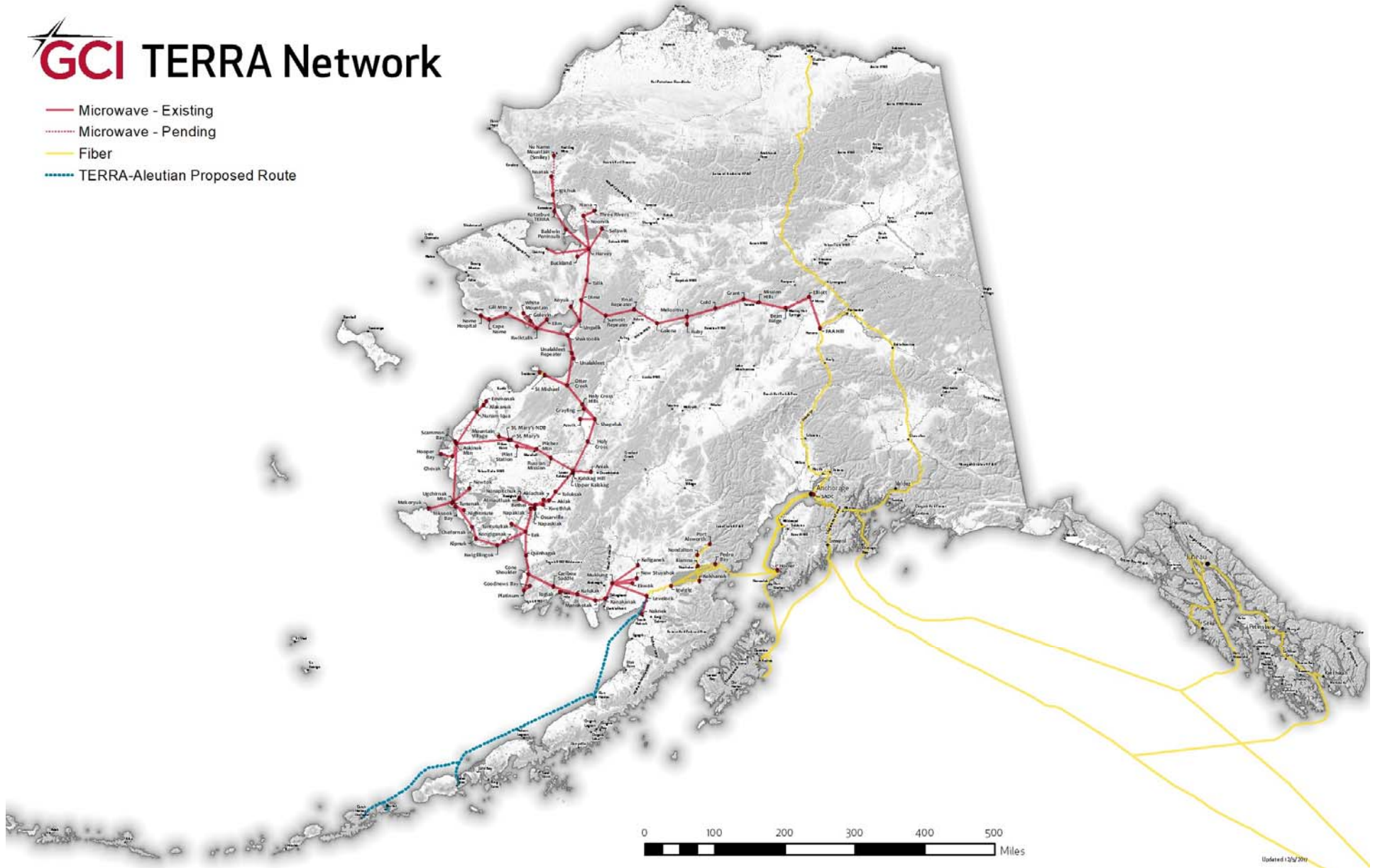


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GCI TERRA Network

- Microwave - Existing
- Microwave - Pending
- Fiber
- TERRA-Aleutian Proposed Route



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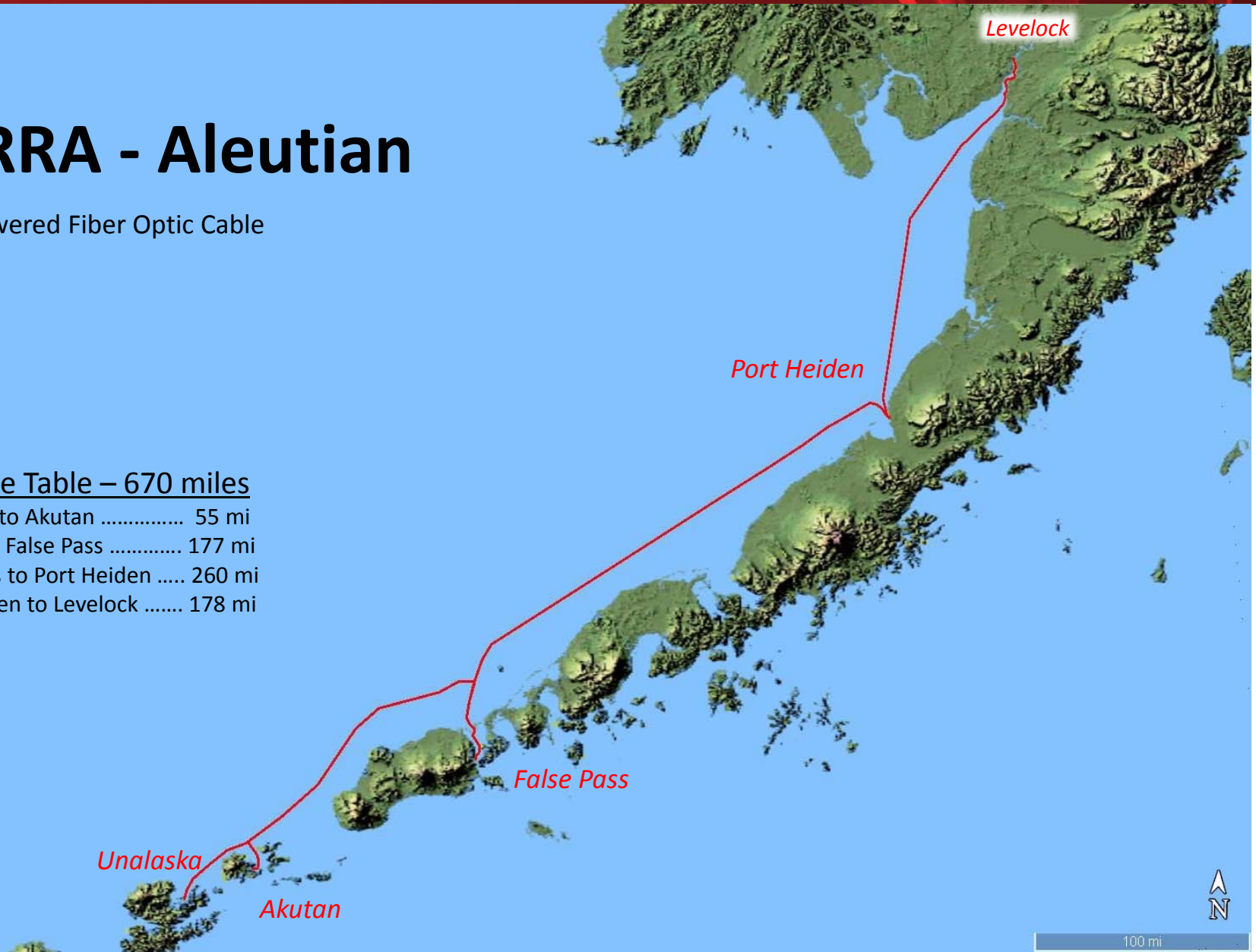


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Non-powered Fiber Optic Cable

Distance Table – 670 miles

Unalaska to Akutan	55 mi
Akutan to False Pass	177 mi
False Pass to Port Heiden	260 mi
Port Heiden to Levelock	178 mi

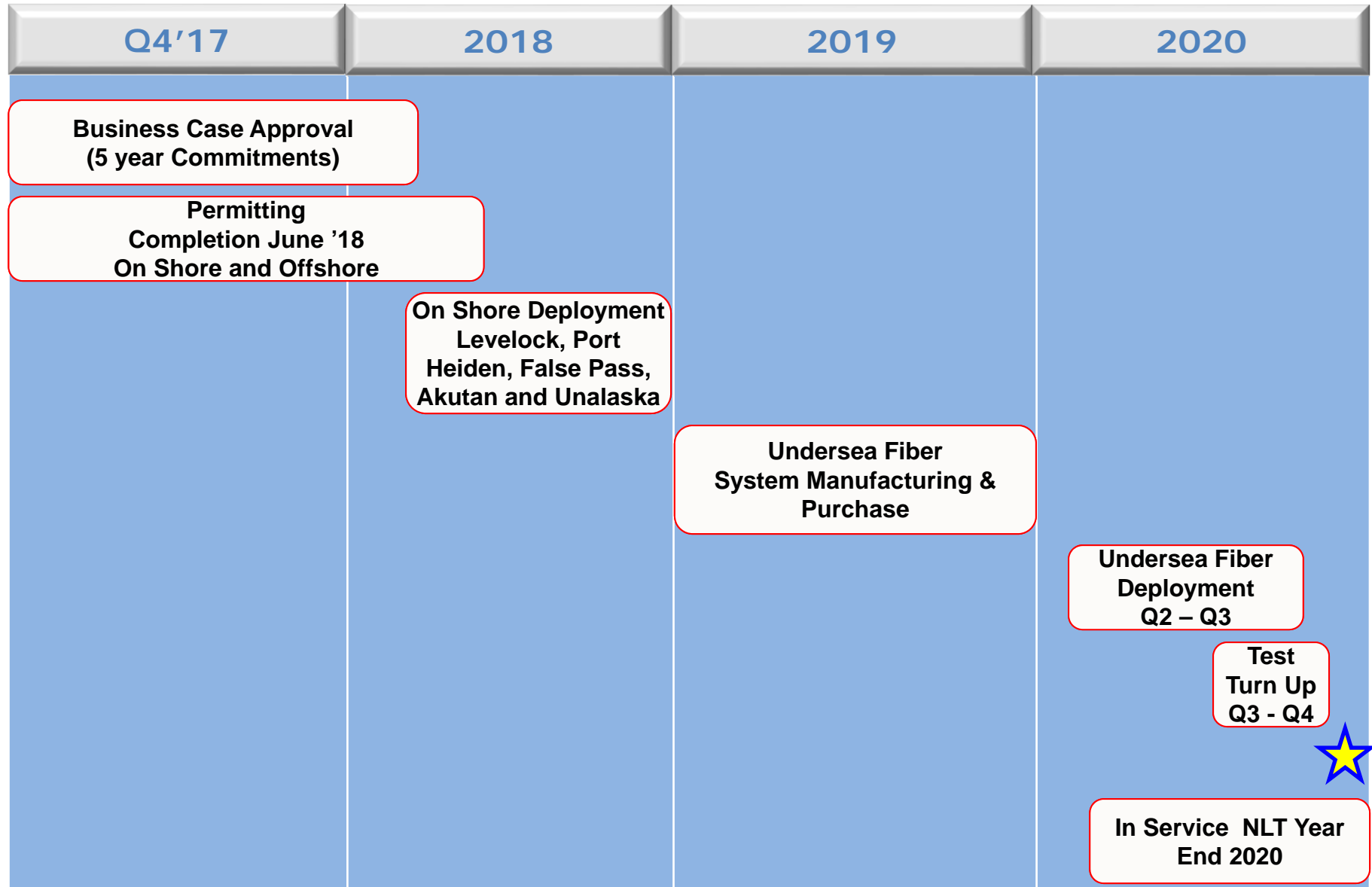


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- Scope
 - Undersea fiber from Levelock to Unalaska.
 - On shore stops in Port Heiden, False Pass, Akutan
 - Branching units included for potential future fiber links
 - Cable plant overbuild in Unalaska
 - Fiber to Trident seafood plant in Akutan
 - Fixed wireless in Port Heiden, False Pass and Akutan
 - Schedule
 - Completion Q3 2020
 - Budget
 - Current estimate \$39.7M
 - Work underway
 - Undersea survey
 - Permitting
 - Unalaska Walk Out and cable plant design

TERRA – Aleutian Timeline



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- Undersea Survey - ~\$2M
 - Survey work has been completed
 - Preliminary report has been completed and received
 - Final report received. Route identified
- Unalaska Local Build
 - Local walkout underway. Final design done by year end 2017.
 - Permitting discussions underway with City of Unalaska
- Other On-Shore Work
 - Engineering underway for shelters and facilities in Levelock, Port Heiden, False Pass, Akutan and Unalaska.
 - Land acquisition
 - Permitting

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- Permitting - ~\$500K
 - DOWL scope completed
 - On shore landing (cable landing) application has been submitted to FCC IB. Working towards grant of permit by May 2018.
 - Corps of Engineers Permit application finalized and submitted on December 8, 2017. Working towards grant of permit by July 1, 2018
 - Permits are good for 5 years.
- Other Regulatory
 - Certification by RCA required for video services. 180 day process.
 - No certification required for Internet or VoIP service.
- Unalaska Local Build
 - Work with City of Unalaska on permitting process underway

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- Local Issues
 - Local support needed and currently appears strong
 - Stable permitting environment
 - Local response regarding permitting has been very cooperative so far.
 - Cable plant design to be reviewed with Directors of PW, Utilities, and City Engineer on January 8, 2018.

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- Business Commitment
 - 5 Year commitments being asked of business community
 - 4 commitments received to date
 - Contract commitment dates begin as of Q2 2020 and expire on December 31, 2020.
 - Contact of businesses continues with universal positive response
 - 5 Year commitments signed and received by:
 - Alyeska Seafood's
 - Westward Seafood's
 - Unisea Seafood
 - Lynden Transport
 - American Presidents Lines

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- Product offerings - Unalaska
 - Mirrors western Alaska regional centers
 - GCI Business
 - Enterprise data offerings
 - Wholesale
 - Telehealth and SchoolAccess
 - Bulk Video (ala North Slope)
 - GCI Consumer
 - Video Services (Cable TV)
 - Internet (same as other rural regional centers)
 - Cellular – Terrestrial LTE / Cell Service
 - LD

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Product Offerings – Akutan, False Pass & Port Heiden

- Mirrors western Alaska terrestrial village service offerings
- GCI Business
 - Enterprise data offerings
 - Wholesale Circuits
 - Telehealth and School Access Connections
- GCI Consumer
 - Rural BroadBand – change from rural internet
 - Cellular – Upgrades from 2G to 3G w/ TERRA-Aleutian
 - LD

