

Alaska Communications

# EXPANDING HIGH SPEED INTERNET IN ALASKA



# OUR AGENDA

- Purpose
- Goal
- Project Overview
- Technology
- Affordability
- Funding
- Timeline
- Next Steps
- Questions & Feedback



# OUR PURPOSE

Support Alaska communities with the technology needed to deliver healthcare, education and support economic development.

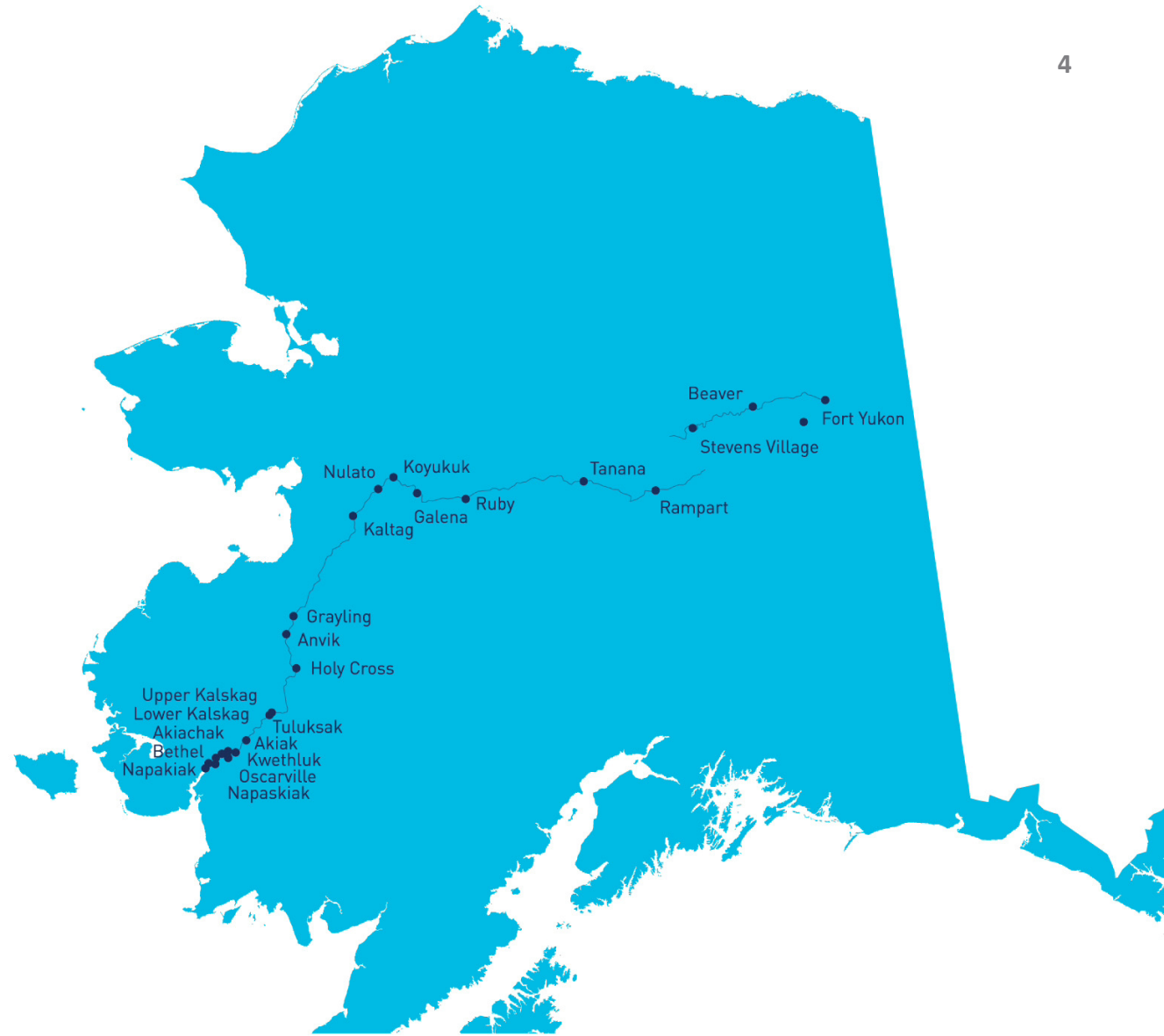




# OUR GOAL

Provide high-speed internet in 20 underserved communities

- Fort Yukon
- Beaver
- Stevens Village
- Rampart
- Tanana
- Ruby
- Galena
- Koyukuk
- Nulato
- Kaltag
- Grayling
- Anvik
- Holy Cross
- Lower Kalskag
- Upper Kalskag
- Tuluksak
- Akiak
- Akiachak
- Kwethluk
- Napakiak





# PROJECT OVERVIEW

- 5,200 rural Alaskans served in 20 communities
- 78% population Alaska Native
- Most communities unserved



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Expect More 5

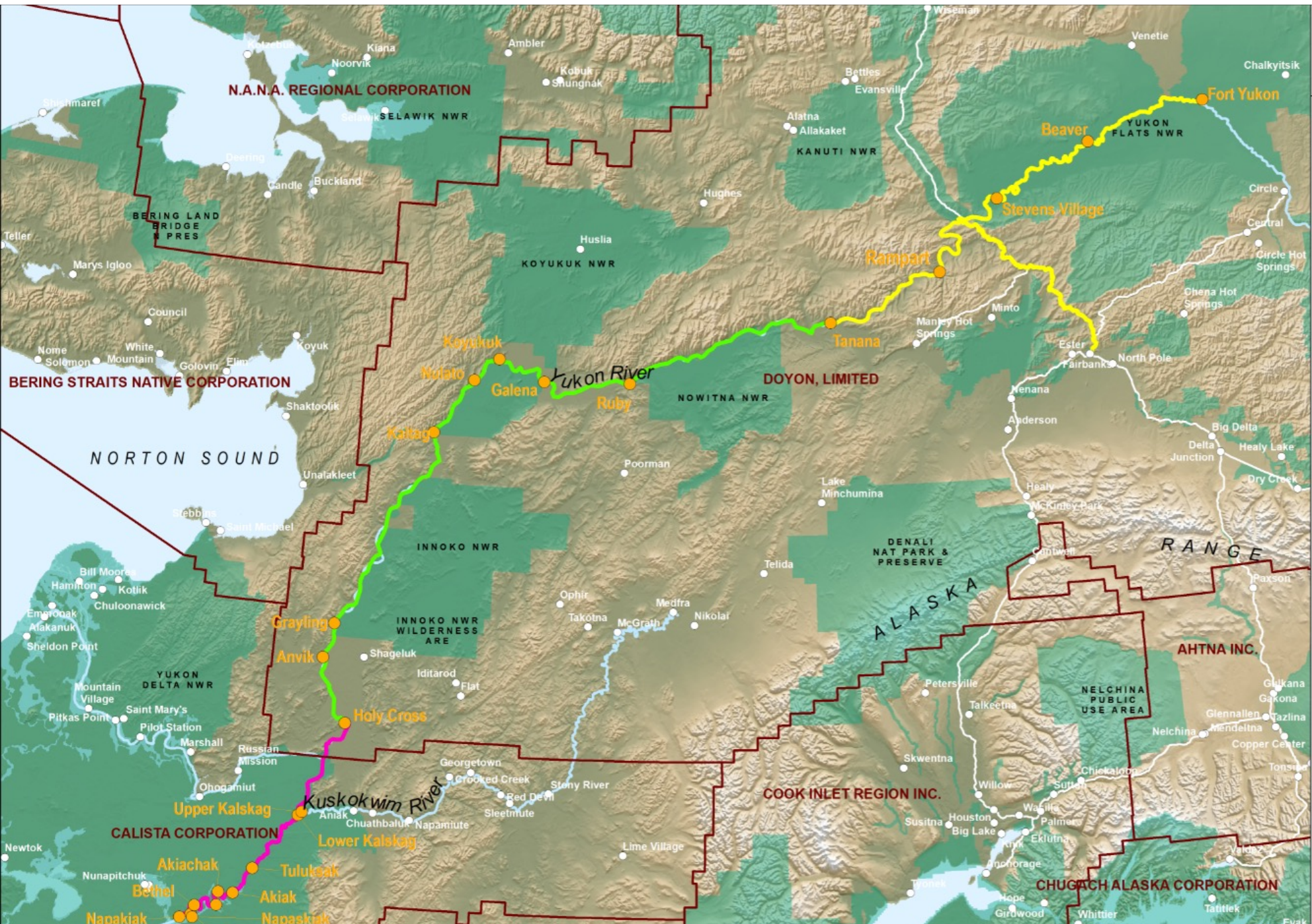
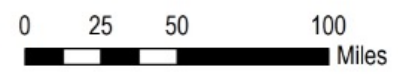


# ALASKA YUKON/KUSKOKWIM RIVERS FIBER OPTIC NETWORK PROJECT PHASES

- Potential Spur Community
  - Other Communities
  - Highway
  - Yukon and Kuskokwim Rivers
  - ANCSA Regional Corporation Boundary
  - Parks, Preserves and Refuges
- Network Project Phase**
- Phase 1
  - Phase 2
  - Phase 3
  - - - Community Spur

## NETWORK LENGTH INFORMATION

Total Length: 1062.5 Miles  
 Terrestrial Length: 186.3 Miles  
 Underwater Length: 876.1 Miles





# ALASKA YUKON/KUSKOKWIM RIVERS FIBER OPTIC NETWORK: PHASE 1



- Potential Spur Community
  - Other Communities
  - Highway
  - Yukon and Kuskokwim Rivers
  - ANCSA Regional Corporation Boundary
  - Parks, Preserves and Refuges
- Network Project Phase**
- Phase 1
  - Phase 2
  - Phase 3
  - Community Spur

**PHASE 1 LENGTH INFORMATION**  
 Total Length: 445.6 Miles  
 Terrestrial Length: 135.0 Miles  
 Underwater Length: 310.7 Miles

0 10 20 40 Miles





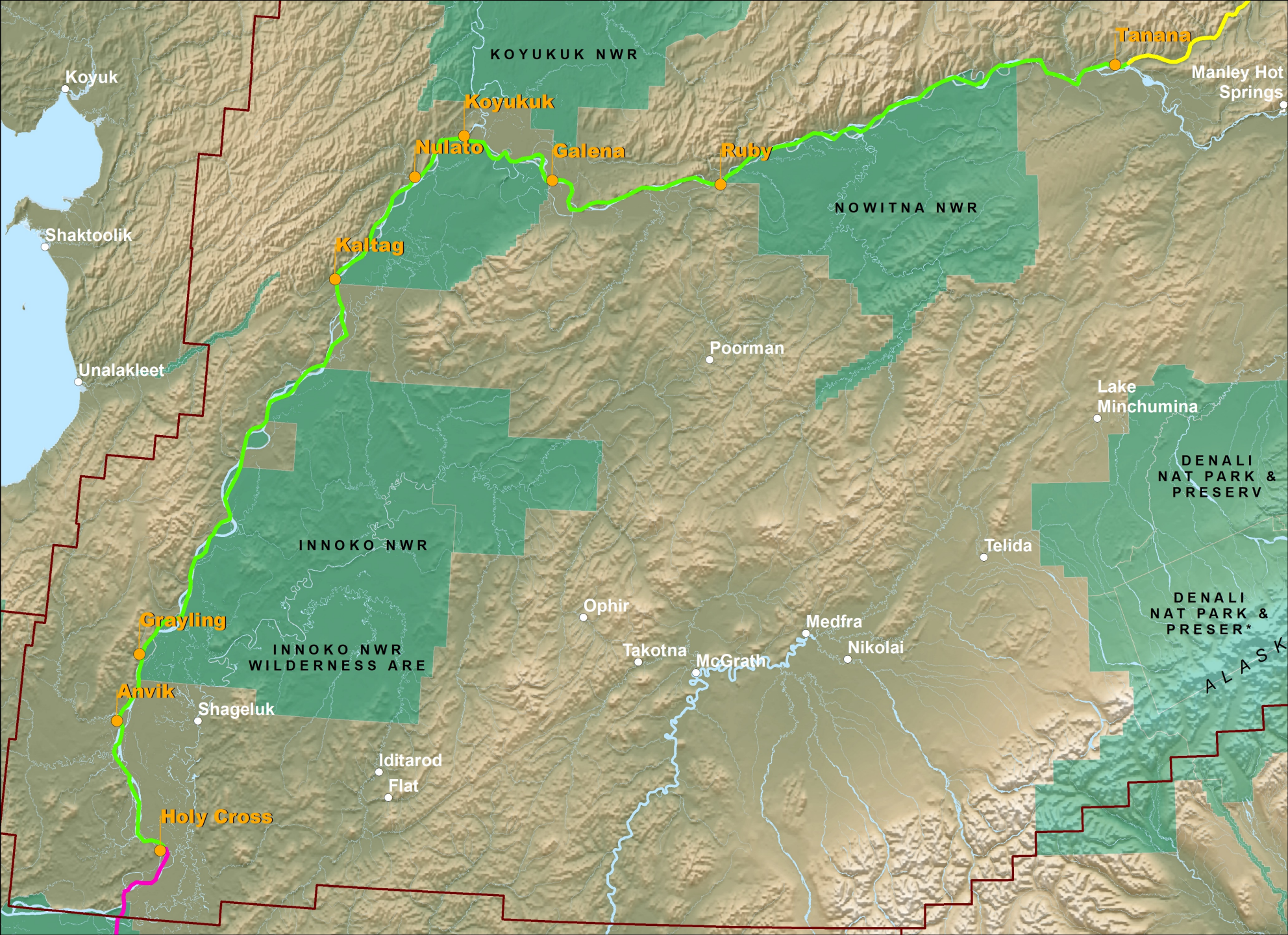
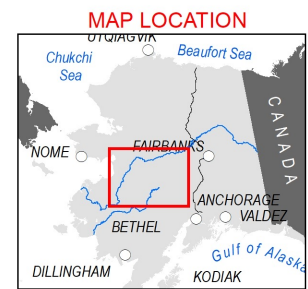
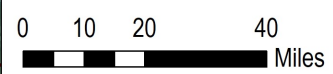
# ALASKA YUKON/KUSKOKWIM RIVERS FIBER OPTIC NETWORK: PHASE 2

- Potential Spur Community
  - Other Communities
  - Highway
  - Yukon and Kuskokwim Rivers
  - ANCSA Regional Corporation Boundary
  - Parks, Preserves and Refuges
- Network Project Phase**
- Phase 1
  - Phase 2
  - Phase 3
  - Community Spur

## PHASE 2 LENGTH INFORMATION

Total Length: 436.4 Miles

Terrestrial Length: NA  
Underwater Length: 436.4 Miles



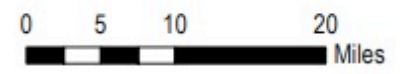




- Other Communities
- Segment 3
- ⊕ ANCSA Regional Corporation Boundary
- ⊕ Parks, Preserves and Refuges

**NETWORK LENGTH INFORMATION**

Total Length: 180.3  
 Terrestrial Length: 51.3  
 Underwater Length: 129.0



**SEGMENT 3 - OPTION 2**





# HDD BOREHOLE LANDING SITE

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## Technical Challenges

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- Migrating river channels and erosion
- Ice in river and ice jams
- Access to cable during shoulder seasons for repairs
- Redundancy for uninterrupted service





# TECHNOLOGY

Fiber optic cable, delivering up to Gigabit speeds

Fiber to the Home in each community



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COMMUNICATIONS.  
*Expect More*

# AFFORDABILITY

Comparable to urban rates

Example:

Anchorage price is \$89.99/month  
for up to 50 Mbps and unlimited data

Rates for healthcare clinics,  
schools and tribal offices  
will also be lower than  
current rates





# FUNDING

U.S. Dept. of Commerce National Telecommunications & Information Administration

- Tribal Broadband Connectivity Program
- Middle Mile Program



# OUR TIMELINE

2022 Grants Awarded, Permit Process Begins

2025 Goal to Complete Construction





# NEXT STEPS

Segment 1      Funded  
Segment 2      Seeking Funding  
Segment 3      Funded





# QUESTIONS & FEEDBACK



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# THANK YOU



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