

Alaska Communications

# EXPANDING HIGH SPEED INTERNET IN ALASKA



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# OUR AGENDA

Purpose

Goal

Project Overview

Technology

Affordability

Funding

Timeline

Next Steps

Questions & Feedback



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# OUR PURPOSE

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



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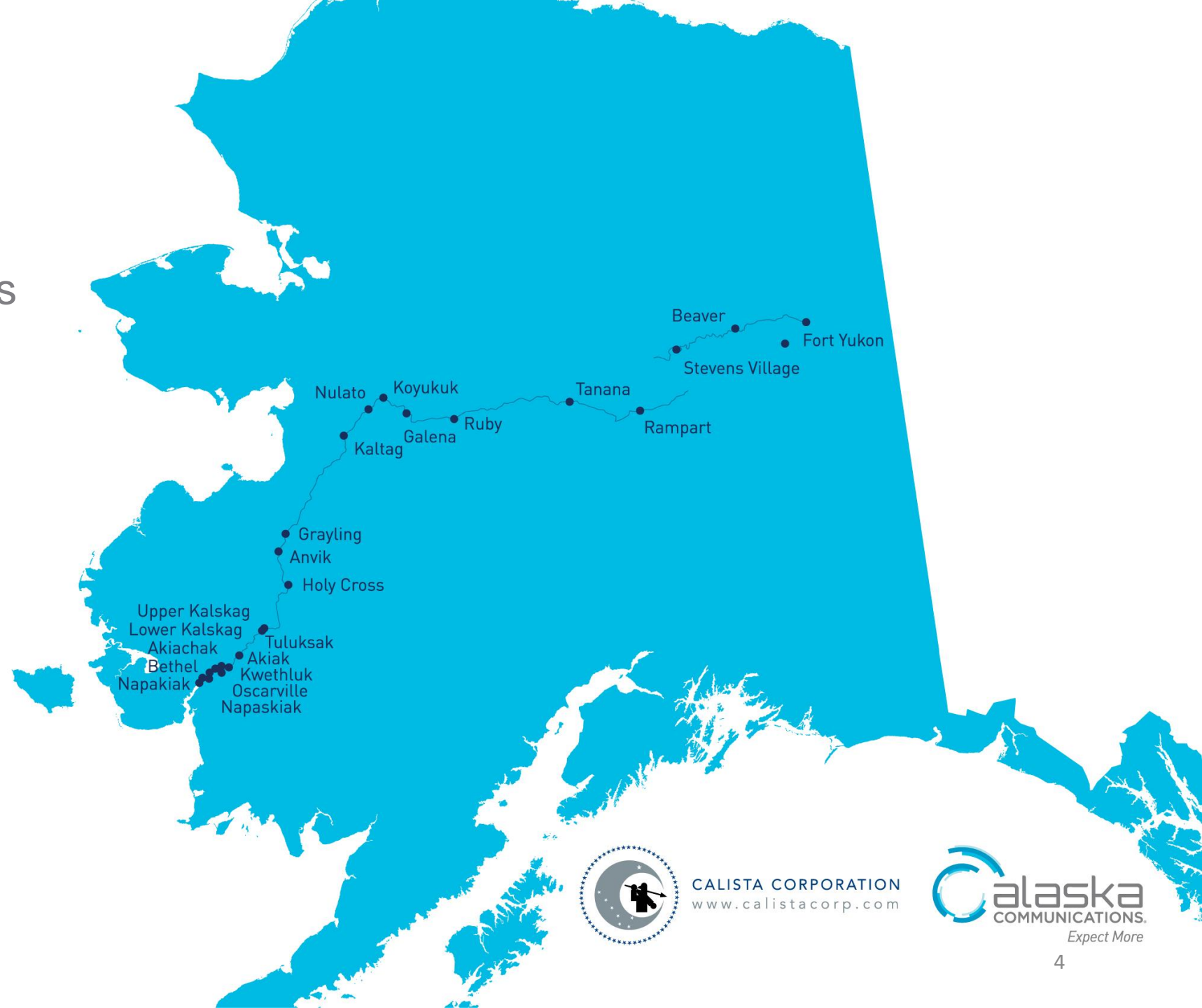




# OUR GOAL

Provide high-speed internet in 23 underserved communities

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



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# PROJECT OVERVIEW

- 11,688 rural Alaskans served in 23 communities
- 78% population Alaska Native
- Most communities unserved



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# ALASKA YUKON/KUSKOKWIM RIVERS FIBER OPTIC NETWORK PROJECT PHASES

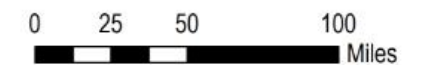
- Potential Spur Community
  - Other Communities
  - Highway
  - Yukon and Kuskokwim Rivers
  - ANCSA Regional Corporation Boundary
  - Parks, Preserves and Refuges
- Network Project Phase**
- Phase 1
  - Phase 2
  - Phase 3
  - Community Spur

## NETWORK LENGTH INFORMATION

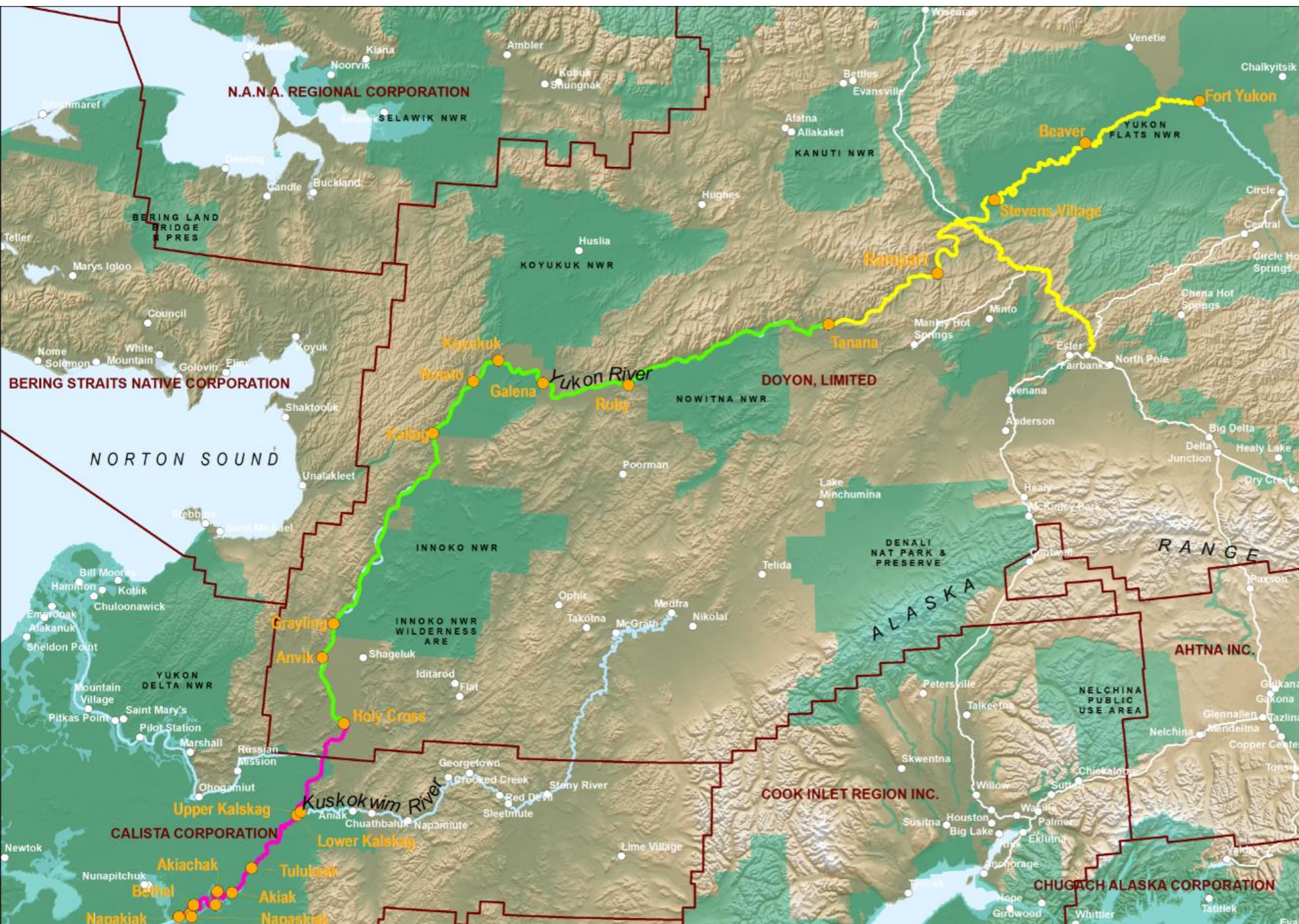
Total Length: 1062.5 Miles

Terrestrial Length: 186.3 Miles

Underwater Length: 876.1 Miles



## MAP LOCATION





# 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





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

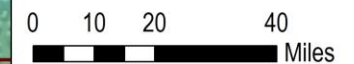
-  Potential Spur Community
  -  Other Communities
  -  Highway
  -  Yukon and Kuskokwim Rivers
  -  ANCSA Regional Corporation Boundary
  -  Parks, Preserves and Refuges
- Network Project Phase**
-  Phase 1
  -  Phase 2
  -  Phase 3
  -  Community Spur

## PHASE 2 LENGTH INFORMATION

Total Length: 436.4 Miles

Terrestrial Length: NA

Underwater Length: 436.4 Miles







# ALASKA YUKON/KUSKOKWIM RIVERS FIBER OPTIC NETWORK: PHASE 3

- 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 3 LENGTH INFORMATION

Total Length: 180.3 Miles

Terrestrial Length: 51.3 Miles

Underwater Length: 129.0 Miles

0102040

Miles

MAP LOCATION

DEPLOYCOM\_0006.mxd, 8/4/2021 10:30:55 AM, RO





## 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



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# 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



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# FUNDING

U.S. Dept. of Commerce

National Telecommunications & Information Administration (NTIA)

- Tribal Broadband Connectivity Program



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# OUR TIMELINE

2022 Grant Awarded, Permit Process

2024 Goal to Complete Construction



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# NEXT STEPS

Community Feedback and Expertise  
Resolutions and Letters of Support  
Complementary Projects Have Been Proposed  
Tribes Can Consent to More Than One Project



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# QUESTIONS & **FEEDBACK**



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# THANK YOU



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