



# University of Alaska

Board of Regents

December 12-13, 2013

## Polar Fiber Update

Karl Kowalski

Chief Information Technology Officer

# Arctic Fibre – Quintillion Partnership

**Arctic Fibre** is actively planning the construction of a network linking Japan to the United Kingdom via Cambridge Bay, Nunavut, Canada. This network will have the following characteristics:

- Three fibre pair cable
- High reliability repeaters
- Design capacity of 80 wavelengths at 100Gb/s
- Two express fibre pairs Japan to London, total capacity 24Tb/s
- One local fibre pair with 5Tb/s capacity

The Express pairs will not land at the intermediate landing stations in order to enhance network reliability and ensure low latency. Signals will be regenerated at Cambridge Bay within a secure facility.

**Quintillion Networks**, an Alaska company, has the exclusive rights for connecting to, and bringing fiber landings into Alaska.

# What does this mean for Alaska?



# Potential Benefits

- Improved Rural Connectivity to hub communities
- New starting points for regional networking
- Increased Competition to drive rates down
- Diverse network routes in/out of Alaska
- Economic Development
  - Data center
  - Commerce
  - Finance
  - Telecommunications
- Potential Partnerships for Research and Education

# Questions & Comments