



**Presentation to the Interagency  
Arctic Research Policy  
Committee**

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## Presenters

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## The Quintillion Network

Strategically located in the Northwest and North Slope Arctic Region

- **1,182 miles of fiber optic cable**
- **505 miles of terrestrial fiber** running parallel to the Dalton Highway
- Connects thousands of **rural Alaskans** to high-speed internet
- Serves North America's largest **oil and gas fields** at Prudhoe Bay





## System Highlights

- 3 Pair System – initial design capacity 100 Gbps x 100 per fiber pair = 30 terabit per second capacity
- Resilient network design, with burial up to 12' below seabed
- Trunk and branch configuration provides redundancy and reduces latency
- 6 cable landings installed 60- 80' deep in steel conduit up to a mile offshore
- Robust feeds and redundant equipment at each Cable Landing Station (CLS) with 24/7 monitoring and response



## Planned Expansion

### PHASE 2

- **Extends** from Washington State to Japan
- **Connects Alaska** to Washington State

Achieves **route diversity**, **reduces latency**, and establishes Asian network

### PHASE 3

- **Connects** Alaska to Canada
- **Extends** through the Canadian arctic to London, with landing stations at Thule AFB and Iceland

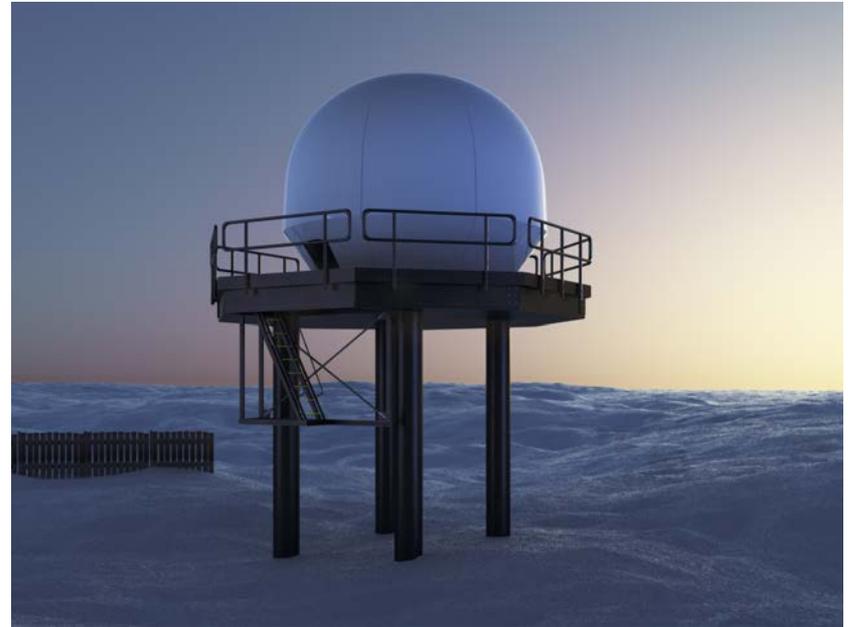
Establishes **Canadian and European Network**





## Northernmost Satellite Ground Station on US Soil

- **Located in Utqiagvik** at 72 degrees latitude, 320 miles north of the Arctic Circle
- Connected to major internet exchanges in the lower 48 via fiber
- Operates on S and X bands with K-band in planning
- Closes critical space security gaps and reliance on **foreign-owned stations**





## National Security Gaps in the Arctic

To secure our northern border, we must close gaps in:

- Arctic Communications
- Domain Awareness
- Enabling Infrastructure
- General Presence



## Network as an Economic Driver

We have connected thousands of **rural Alaskans to high-speed internet**, unlocking economic and social opportunity.

### Our network enables

- Schools
- Hospitals
- Libraries
- Telehealth
- Remote Learning
- Teleworking
- Ecommerce
- Search and Rescue
- Research





## Partnerships

Trusted partner of major national organizations and the Arctic research community:

- Sandia Labs
- Iñisaġvik college
- ASRC
- ATLAS Space Operations
- BSNC
- ASTAC
- NOAA
- Internet2
- GCI
- TelAlaska
- Alaska Communications
- DRS



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