

The background of the slide is a dark, abstract image featuring a central fiber optic cable that branches out into numerous colorful light trails. These trails, in shades of green, yellow, red, and blue, radiate outwards, creating a sense of dynamic movement and connectivity. The overall effect is reminiscent of a data network or a complex communication system.

Global communications
fast, reliable, secure

QUINTILLION NETWORKS

Presentation for the State Broadband Task Force Meeting
January 23rd, 2013

About Quintillion Networks

Quintillion is an Alaska company formed for the purpose of building, owning and operating terrestrial and submarine fiber optic cables in Alaska.

- Quintillion is a middle-mile provider and will provide capacity to all telecoms but does not intend to cover the last mile
- The network will reach specific underserved Alaska communities currently served only by expensive satellite backhaul:
 - **Confirmed Prudhoe Bay, Barrow, Kotzebue and Nome.**
 - Under consideration: Wainwright, Pt. Hope and Shemya.
- Quintillion is the exclusive Alaska Partner to Arctic Fibre and has exclusive ownership of the spurs and interconnect rights to the Arctic Fibre backbone
- Alaska is the only US state that will be directly connected to AFI's new backbone
- TARGET IN-SERVICE DATE NOVEMBER 2014

Quintillion and AFI's new submarine and terrestrials networks...

...offer a geographically diverse route out of North America, with lower latency and fewer hops on many routes.



About Arctic Fibre

- Arctic Fibre International, Inc. is a Bermuda-based company that will design, build, operate and own the submarine fibre backbone
- www.arcticfibre.com
- The backbone creates a physically diverse 15,300 km route from Japanese/Korean, Chinese markets to Europe avoiding subsea issues in Luzon Strait, South China Sea, Red Sea and Suez Canal and avoids terrestrial crossing of North America
- Avoids politically risky terrestrial crossings in Egypt and Middle East
- Provides lowest latency from Shanghai, Taipei, Seoul, and Tokyo to London and Frankfurt at 168 ms RTD. Latency drops a further 9 ms with 100G technology
- Bridges digital divide between communities in Alaska, and Canada by displacing costly, temperamental satellite with fibre bandwidth
- Provides connectivity to defense and research stations in Alaska, Canada and Greenland
- Arctic Fibre Canada owns all the Canadian spurs

Network Design

▶ The network will:

- provide a geographically diverse alternate route out of North America to Europe and Asia.
- expand service and capabilities to the Prudhoe Bay via 400+ miles of new fibre optic cable along the Dalton Hwy corridor from Fairbanks, Alaska.
- Interconnect with existing providers in Fairbanks to provide connection to the continental US via existing geographically diverse terrestrial and submarine fiber optic cables.
- provides 4 to 7 spurs from branching units on a new submarine fiber to be built from London to Tokyo via the Northwest Passage by Arctic Fibre
- includes capacity rights on the AFI backbone to Montreal, Canada for easy interconnect to the Eastern US
- provides interconnect services (to/from Fairbanks) - Planned for of 80 Gbps but will confirm with final design and engineering
- provides international services (From Fairbanks) planned for 1.6 Tbps - Express routing from Prudhoe Bay to London or Tokyo
- Quintillion is collaborating with the Alaska telecoms to evaluate additional new fiber or microwave infrastructure to connect other Alaska communities.

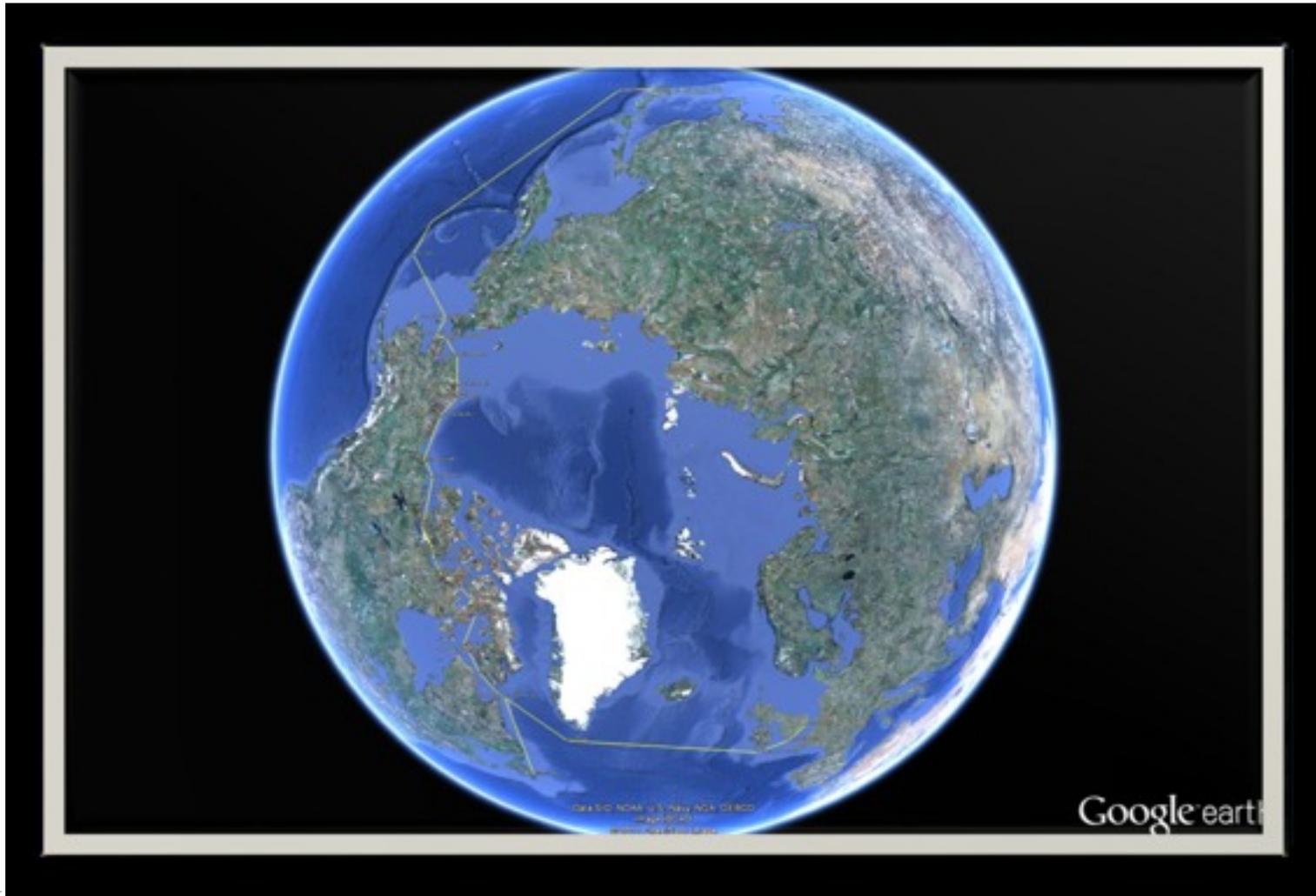
What does this mean for Alaska?

- ▶ This network provides:
 - ▶ Almost unlimited broadband to Alaska coastal communities
 - ▶ Essential infrastructure for economic and resource development
 - ▶ Expanded service and lowers cost of delivery for Government agencies
 - ▶ Enhanced quality of life in rural Alaska

Quintillion Principals

- Elizabeth Pierce, CEO
 - 12 years in senior management at Alaska Communications including Business Development (infrastructure projects and partnerships with ANCs); Sales (Federal and State Government focus); Risk Management & Legal Compliance
 - 25 years in Arctic and sub Arctic environments building and operating telecommunications, radar and power facilities including the Alaska Radar System
 - Elizabeth.Pierce@quintillionnetworks.com
- Hans Roeterink, COO
 - 25 years of national and international design, build and operate experience on large scale projects
 - Former CTO and VP Network Operations of Deutsche Telekom North America
 - Former CEO of an electric power generation and power management services company with facilities in Alaska
 - Hans.Roeterink@quintillionnetworks.com

Most Direct Cable Route London to Tokyo



QUINTILLION NETWORKS

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