Quintillion Subsea Cable System



Presented By: Elizabeth Pierce, Founder & CEO Arctic Broadband Forum Oulu, Finland 14 May 2017



Quintillion

- · Headquartered in Anchorage, Alaska
- Building a multi-phase fiber optic cable network in and around Alaska with plans to connect to Asia, Canada and Europe
- Previously affiliated with Arctic Fibre acquired Arctic Fibre assets and now lead the project
- Privately funded, private operator selling wholesale capacity to telecom service providers
- Reduced cost of wholesale service in Alaska by up to 90% from existing microwave and satellite wholesale services
- Multi-phase construction is practical given the open water constraints in the North American Arctic
 - Phase 1 scheduled in-service Dec 1, 2017 but has been operating in test mode since Nov 2016
 - Phase 2 to Asia, in development
 - Phase 3a Western Canadian Arctic, in development
 - Phase 3b final phase to Europe



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The Challenging Arctic Environment and International Cooperation

NW and NE Routes present challenges

Construction is more challenging

- Short open water season limits construction season
- Limited supply of specialty vessels and tools you can't just break up the ice but must protect the cable during installation
- Limited logistical support in theater
- Must protect from ice damage after installation

Small geographically dispersed populations challenge traditional business cases – markets can't currently support multiple competing cables

Political interests and National security interests don't always align

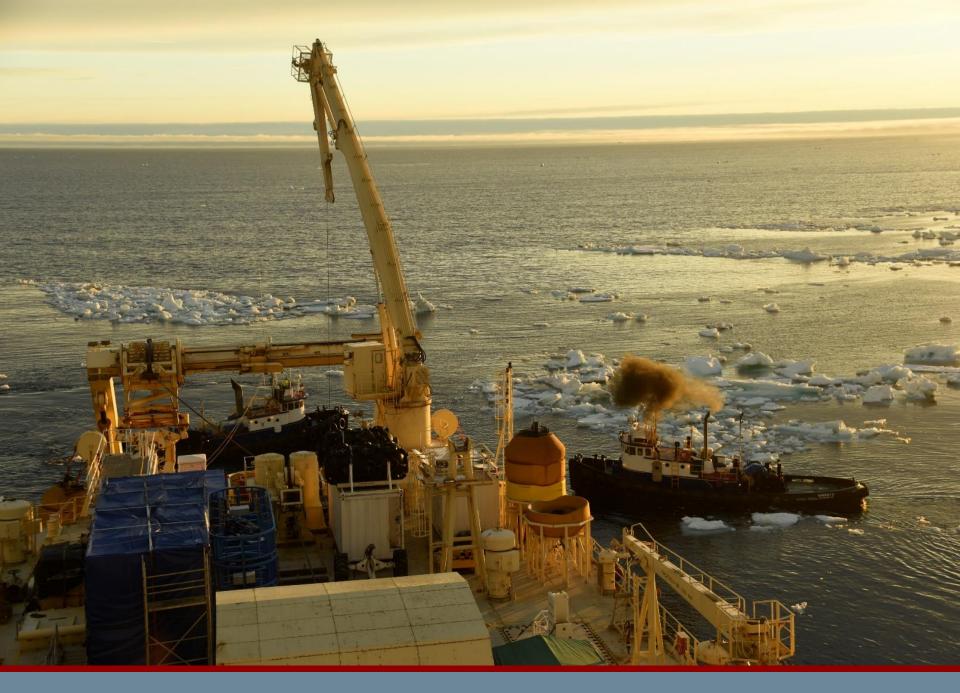


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Constructing in the Arctic is Challenging







NW and NE Routes Present Opportunities

Increase the diversity of critical cable systems – heavy concentration of landings driving customers to seek diverse routes

Stimulate economic growth – unleash opportunities constrained by lack of true broadband

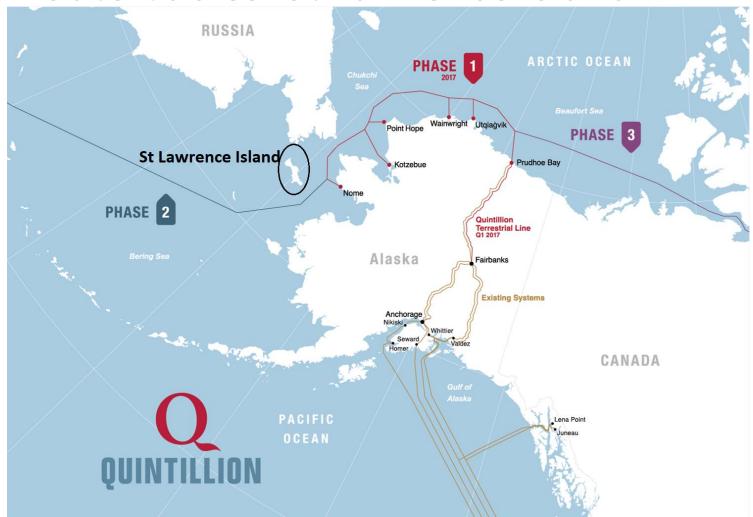
Share costs – leverage economies of scale on the backbone

International cooperation building cables can strengthen relationships between countries and regions

Facilitate additional cooperation in the responsible development of the Arctic



Potential Meet-Me-Point for NW & NE Route Cables: St Lawrence Island





THANK YOU

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