QUINTILLION

QUINTILLION SUBSEA CABLE SYSTEM

Quintillion

Quintillion is a private operator headquartered in Anchorage, Alaska. Majority funded by U.S. private investment firm Cooper Investment Partners, Quintillion is led by Founding Partner & CEO, Elizabeth Pierce. Quintillion was established with the goal of bringing fiber to the Arctic and some of its most rural and underserved communities, and to eventually connect Europe with the Far East.

The company contracts to sell capacity on its network on a wholesale basis, with Quintillion's system providing access to substantially improved service quality for telecommunications providers while reducing the cost of backhaul infrastructure compared to existing satellite and microwave technologies.

The company is currently constructing "Phase 1" of a planned multi-phase subsea and terrestrial fiber optic cable network, which will connect communities across the North American Arctic to the World Wide Web. The system will connect initially through existing fiber to the U.S. Pacific Northwest and ultimately to Asia and Europe.

The Project

The Quintillion system, starting with Phase 1 - Alaska, will have substantial beneficial effects on the cost of communication services in the Arctic - significantly improving the quality of life for people living and working there.

Construction is already underway to complete Phase 1 - Alaska, including installation of a subsea fiber optic cable from Prudhoe Bay to Nome, Alaska, with spurs to Nome, Kotzebue, Point Hope, Wainwright, Barrow and Prudhoe Bay, Alaska. At Prudhoe Bay, the system will interconnect with existing fiber from Fairbanks to Anchorage, Alaska, and on to the U.S. Pacific Northwest. Phase 1 - Alaska is on schedule to be in-service in 2017.

In subsequent phases Quintillion plans to extend the system internationally to Asia and Europe, with additional spurs to Alaska and the Canadian Arctic, offering increased hi-speed capacity, lower latency, and critically-needed diverse and redundant communication routes at speeds faster than existing transmission rates.

Project Status

Overview:

- Trunk and branch configuration
- 3-Pair System - initially 100Gbps x 100 λ per fiber pair = 30 Terabits per second
- Robust power supply and redundant terminal and distribution equipment
- 25+ year life, high-quality glass and programmable repeaters
- 100% privately funded

Phase 1 In-Service - 2017:

- Phase 1 marine installation July through October 2017
- Resilient Cable Design - double-armored and buried in shallow waters
- Provide true broadband at substantially lower cost than existing satellite and microwave backhaul
- Enable 21st century technology in the Arctic

Phase 1

Nome to Prudhoe Bay, Alaska with spurs to Kotzebue, Point Hope, Wainwright and Barrow. Prudhoe Bay connects to new fiber extending to Fairbanks. Fairbanks connects to existing fiber optic cable systems to Anchorage and the U.S. Pacific Northwest.

Phase 2

Additional subsea fiber would extend from Phase 1 by starting at Nome, Alaska to Japan, with options for additional Alaska spurs.

Phase 3

This phase would lay additional subsea fiber starting from Prudhoe Bay, Alaska to Canada and Europe, with planned spurs into the Canadian Arctic.

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