



Today's Focus...

- Alaska Coverage Today vs. Tomorrow
 - New Industry Innovations
 - Mark How You Can Use This New Tech
 - What's Coming Soon

... But first the basics!



Building On Our Experience ...





Created... PACIFIC DATAPORT

Partnered with...



About Pacific Dataport Inc. - Pacific Dataport Inc. (PDI) is a satellite middle mile provider headquartered in Anchorage, Alaska. PDI was founded "by Alaskans, for Alaskans" to enable Internet access for everyone, everywhere in Alaska. PDI is focused on providing affordable middle mile and last mile broadband using the newest satellite technology from the Aurora and OneWeb Networks. PDI clients include telecoms (wired & wireless), non-profits, hospitals, clinics, schools, libraries, governments (Tribal, local, state & federal) and Alaska Native Corporations, Villages, Tribes and Tribal consortiums.

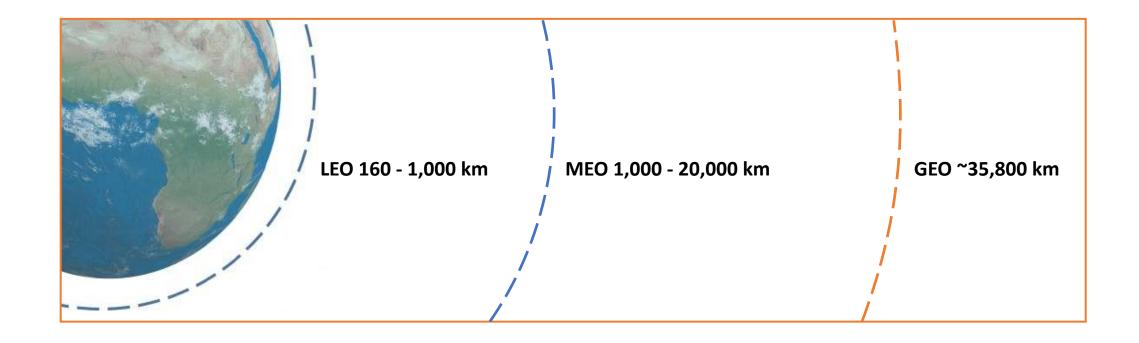
Last Mile Technology Coax, Fiber, Wireless, DTC Satellite (in the community)

Middle Mile Technology Fiber, Satellite, Microwave (on the highway)



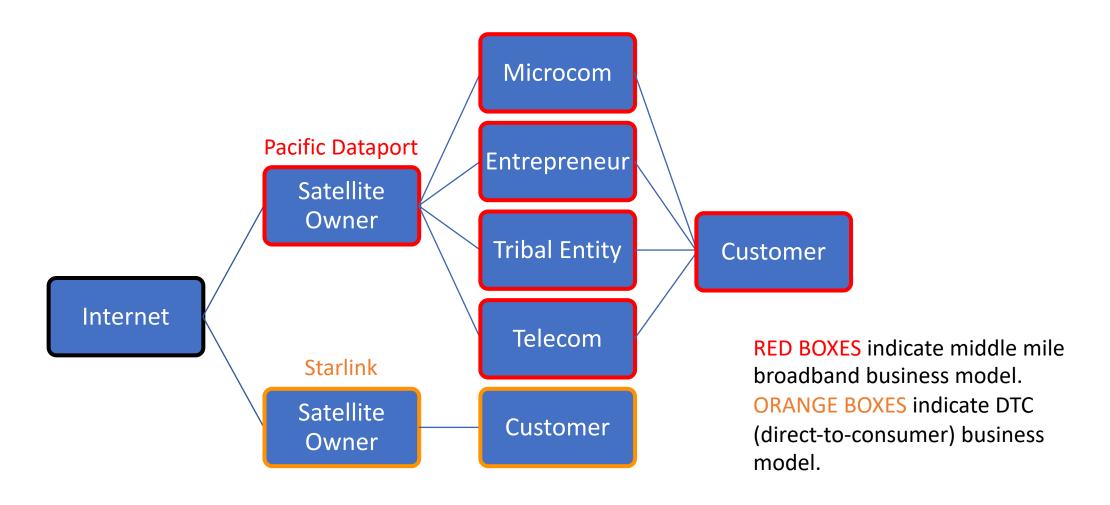
Customer - Customer Dish - Satellite in Space - Gateway - Internet

LEO, MEO, GEO Satellites





Internet to Customer Path





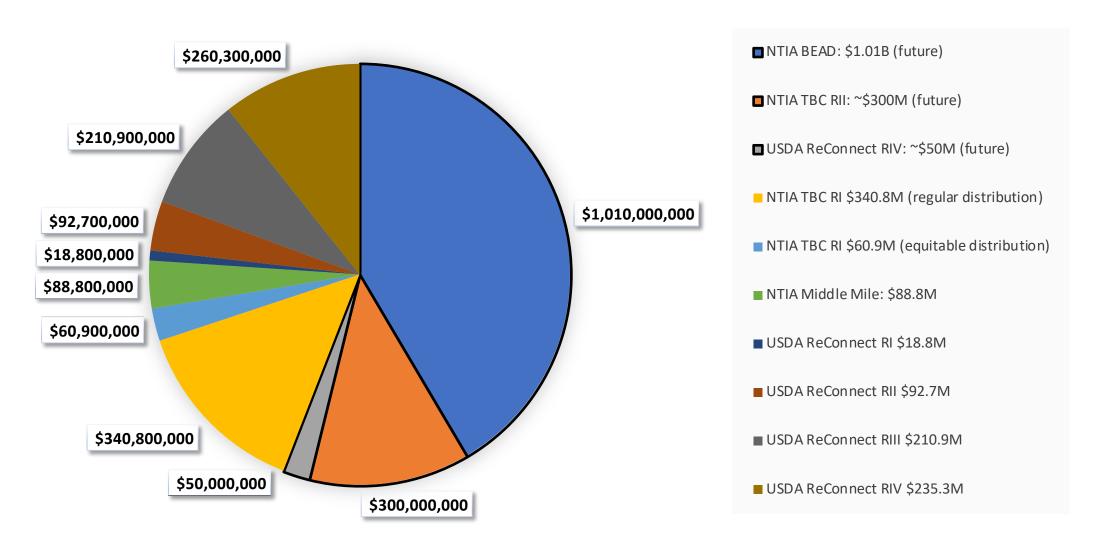
Alaska Coverage Today vs. Tomorrow

- Existing Fiber (green)
- Current Construction Fiber (pink)
- Future Fiber Universal Broadband Network (yellow)
- Does not include GCI's Terra Microwave Network



Courtesy of the Alaska Broadband Office

Alaska's \$2.4B Federal Funding for Broadband



OneWeb Network

- LEO Satellite
- Statewide Coverage
- Operational Now

Aurora Phase I – Aurora 4A

- ~7.5 Gbps
- GEO HTS Satellite
- Statewide Coverage
- Operational Q2 2024

Aurora Phase 2 – Aurora IV

- ~100+ Gbps
- GEO VHTS Satellite
- Statewide Coverage
- Operational Q4 2025











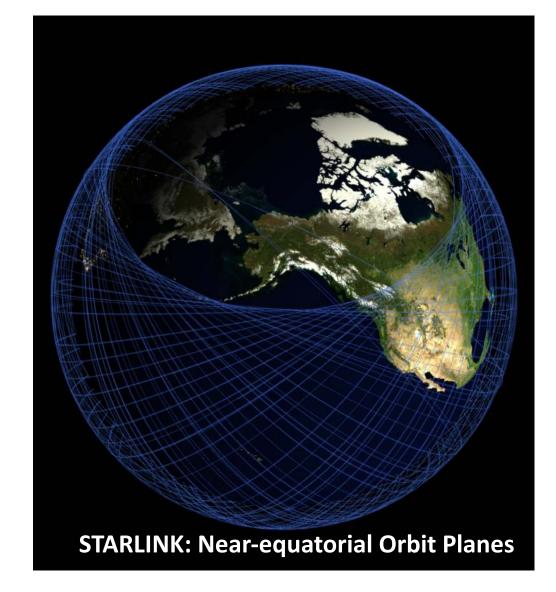




New Industry Innovations







LEO Network Structure





Starlink LEO Satellite Backhaul Projects



The first Starlink community gateway located in Unalaska, Alaska. Photo: SpaceX



OneWeb LEO Satellite Portable Terminal





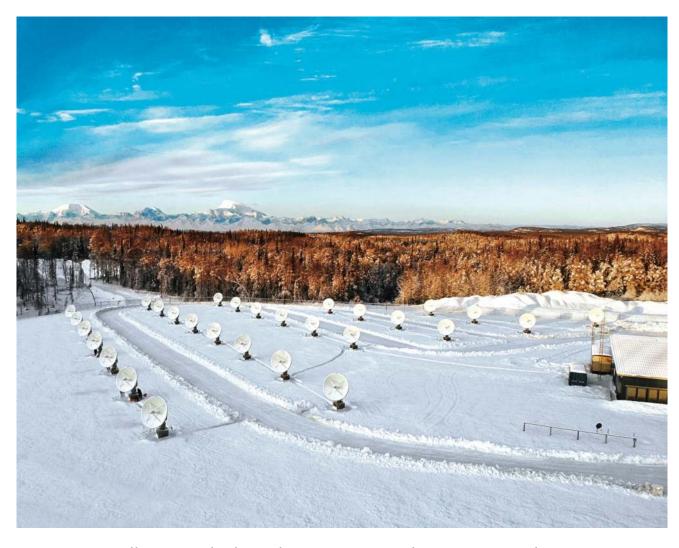
Antenna Variations:

- Fixed Locations
- Moving Land Vehicles
- Moving Marine Vessels
- Moving Aircraft

Kymeta's Hawk u8 OneWeb LEO Terminal. Photo: Kymeta



OneWeb LEO Satellite Gateway



Microcom's Talkeetna Alaska Teleport / OneWeb's Gateway. Photo: Microcom



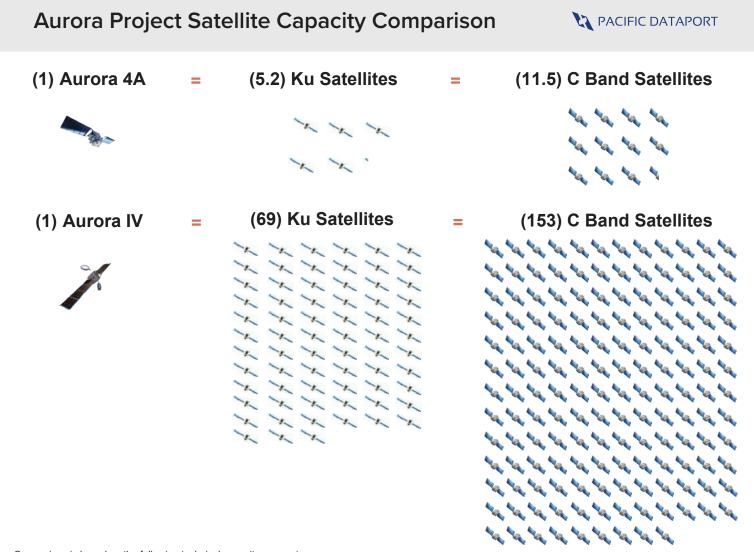
- 90 Acre Site
- Able to host multiple gateway clients
- OneWeb first client with 29 gateways
- Redundant fiber and power
- Space for a data center, data processing and Internet exchange



Aurora GEO Satellite Network

New Technology

- High speed and high capacity
- Direct connection to the Internet (Layer 3)
- Ka-Band, better than previous technology





How You Can Use This New Tech

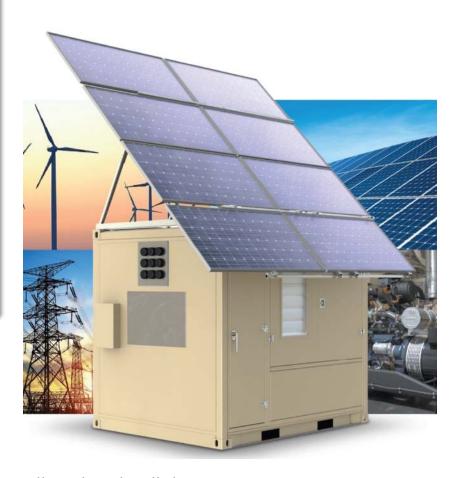
- More Efficient and Streamlined Project Management
- More Reliable Communication with Remote Teams
- Improved Emergency Response
- Improved Site Security
- Improved Employee Morale
- Integration of Al Technology (video)





Portable Communications





Can Provide Redundant Broadband and Cellular Connectivity, with Dual Power Sources. Good For More Than 25 Users.



Portable Communications







Al & On-Site Connectivity





What's Coming Soon



LEO OVER ALASKA

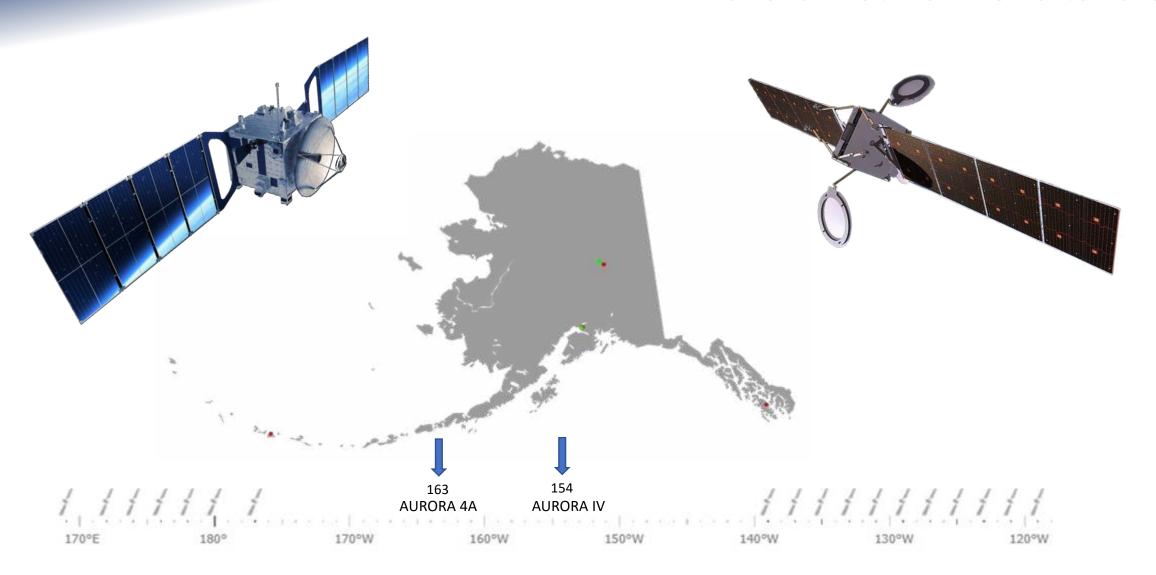
Network	Date Available	Reported Speeds	Reported Latency	Capacity Available
Eutelsat / OneWeb (mm)	Now	up to 100/20	65-200 ms	~20 Gbps
Lightspeed (Telesat, mm)	Unknown	Unknown	Unknown	Unknown
Rivada Space (Germany, mm)	2026	Unknown	Unknown	Unknown
Starlink (SpaceX, dtc)	Now	up to 196/27	63-92 ms	~20 Gbps
Kuiper (Amazon, dtc)	Unknown	Unknown	Unknown	Unknown
Galaxy Space (China, dtc)	Unknown	Unknown	Unknown	Unknown

GEO HTS OVER ALASKA

Network	Date Available	Reported Speeds	Reported Latency	Capacity Available
Pacific Dataport: Aurora 4A	Q1 2024	up to 400/100	550-650 ms	~10 Gbps
Pacific Dataport: Aurora IV	Q4 2025	up to 400/100	550-650 ms	~100 Gbps
Jupiter 3 (Hughes)	Q1 2024	up to 400/100	550-650 ms	Minimal
HughesNet	Now	up to 44/4	693 ms	0
Viasat	Now	up to 34/5	784 ms	0



Aurora Network Orbital Slots





Aurora 4A Launch Expected – Q1 2024

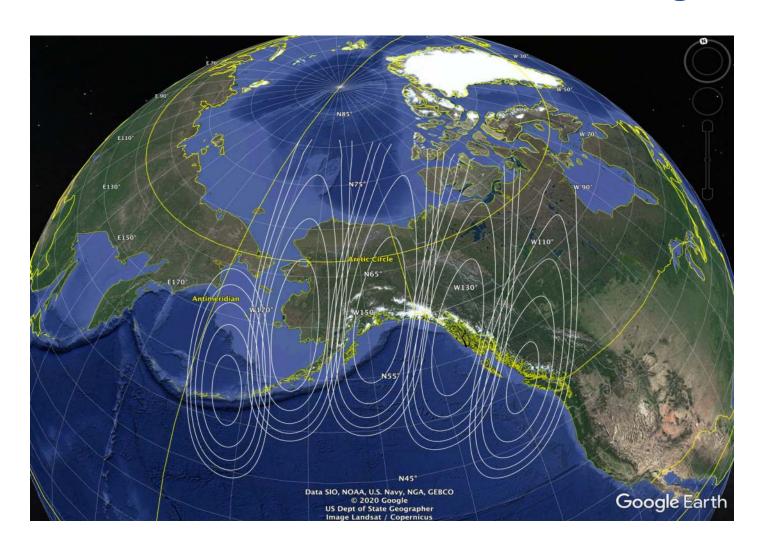


- ✓ Satellite built in California
- ✓ Gateway built in Utah
- Launch expected Q1 2024
- Commercial service on or before Q2 2024





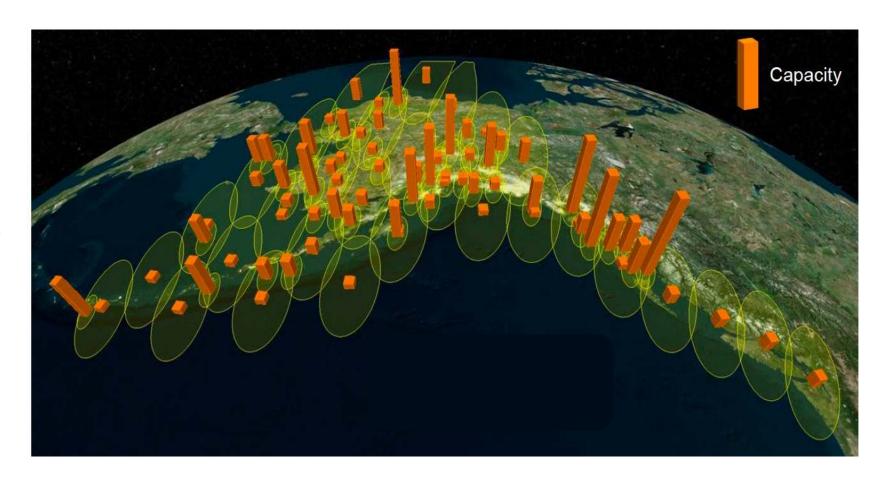
AURORA 4A GEO HTS Alaska Coverage





Aurora IV Optimized for Rural Alaska

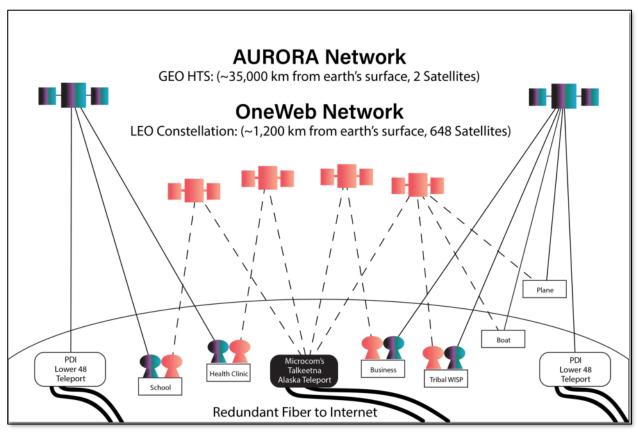
- Capacity ~110+ Gbps
- Dynamic Beam Coverage
- Enables a target retail price of \$99
- Multi-satellite system offers redundancy and diversity
- Expansion capacity as needed
- STATEWIDE RESILIENCY & NETWORK REDUNDANCY



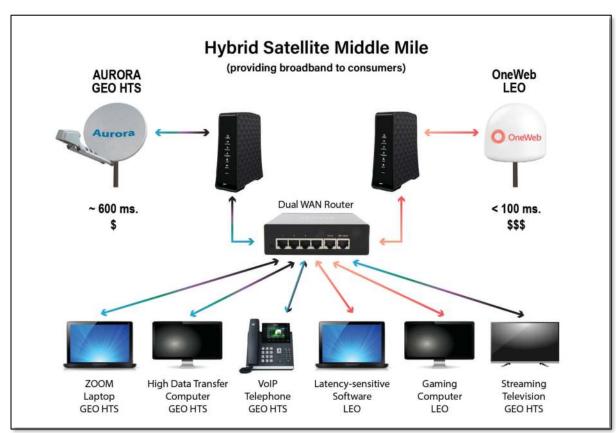


Aurora GEO HTS/ OneWeb LEO Hybrid

... from Space



... on the Ground



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Thank you!