

ALASKA POWER & TELEPHONE FIBER OPTIC INITIATIVES

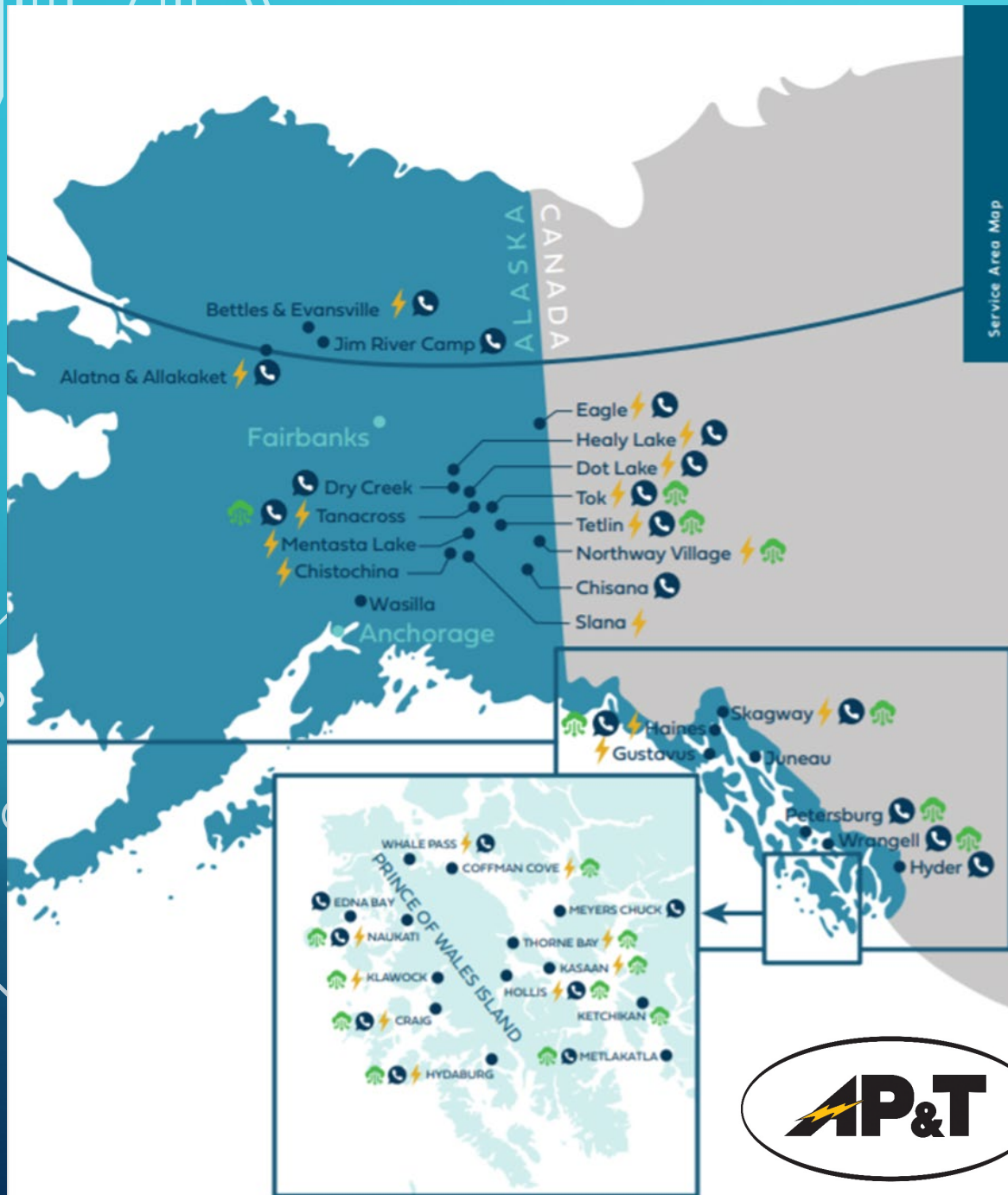


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AP&T

SERVING RURAL ALASKA SINCE 1957



- Serves 40 rural Alaskan communities in SE AK and remote areas of the interior, spanning 1,100 miles from end to end.
- Small business with ~130 employees providing power, telephone, and telecom services
- Subcontractors play a key role in the success of AP&T's projects and operations. Significantly overlap with supply chains for forestry and mining... and AP&T still buys a lot of fuel!
- Serves remote communities in the Tongass National Forest region, which has been subject to significant economic shifts resulting from changes in federal land management policy
- 75% hydropower-based generation company-wide. (Higher percentages in SE AK communities.)
- Employee Stock Ownership Program (ESOP)
- Shares trade in the OTC market: "APTL"
- www.aptalaska.com for additional company details

AP&T Existing Network

Glacier Bay National Park and Preserve

Haines

Skagway

Juneau

Tongass National Forest

Petersburg

Wrangell

Naukati

Coffman Cove

Klawock

Craig

Thorne Bay

Hollis

Kasaan

Hydaburg

Ketchikan

Legend

Google Earth

Data: LDEO-Columbia, NSF, NOAA

Image: Landsat / Copernicus

Image: IBCAO

Data: SIO, NOAA, U.S. Navy, NGA, GEBCO



AP&T NETWORK PRE-OCT. 2022

- **Lynn Canal Fiber** – subsea fiber optic cable between Juneau, Haines and Skagway.
- **Southeast Alaska Microwave Network (SAMN)** - spans SE Alaska from Skagway to Metlakatla.
- **Some terrestrial fiber on Prince of Wales Island.**
- **Existing fiber to the home in certain locations.** (Ex: Skagway, Haines)
- **Additional FTTH under development!**



RECONNECT ROUND 2 PROJECT: “SEALINK”

(Green)

- SEALink cable system – subsea fiber optic cable interconnecting Juneau, Petersburg, and Coffman Cove. (Completed late October, 2022)
- Fiber to the home installations in Coffman Cove and Kasaan. (2023)
- Provides a platform supporting continued improvement of services.



Google Earth

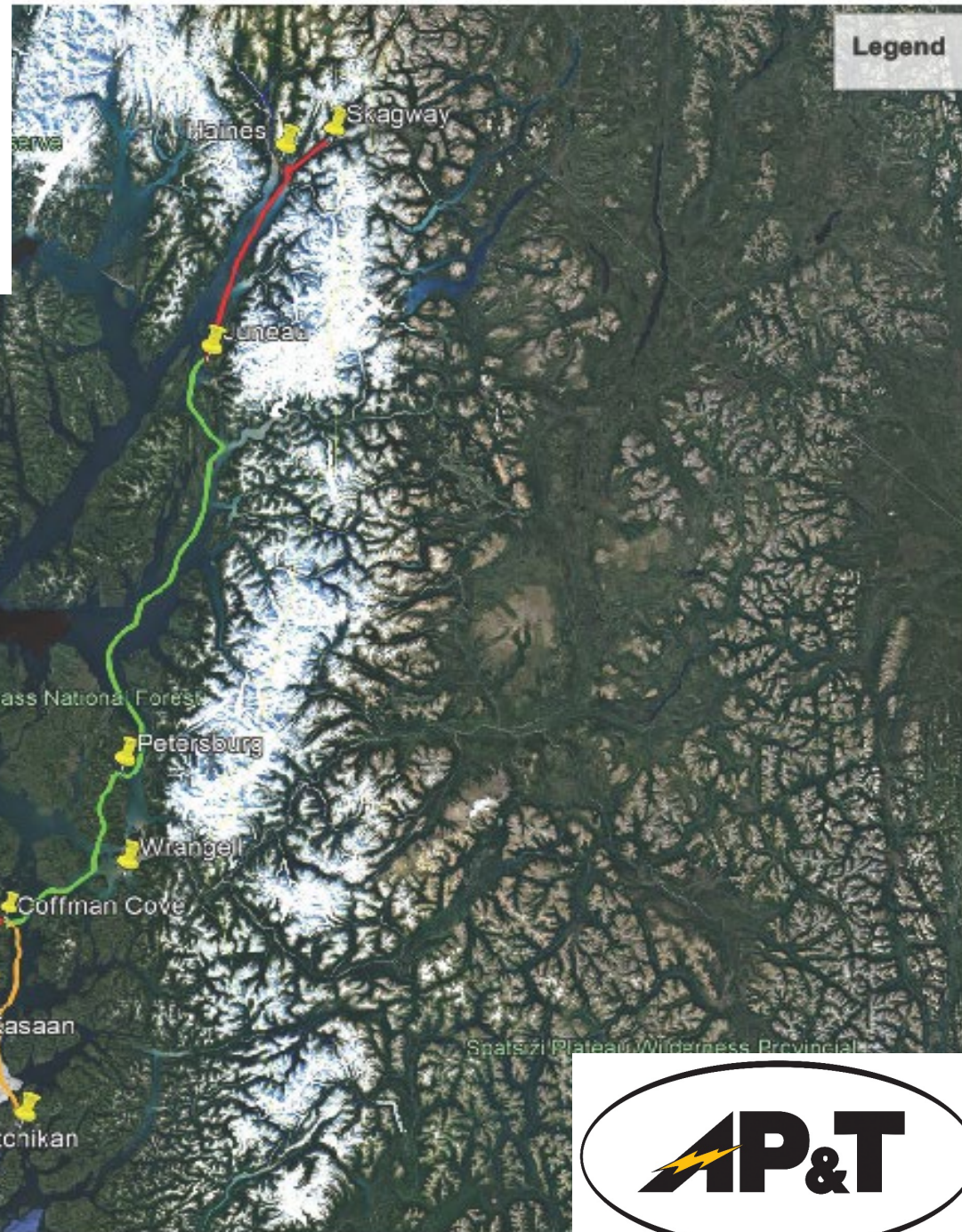
Data LDEO-Columbia, NSF, NOAA

Image Landsat / Copernicus

Image IBCAO

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

SEALink (South)



RECONNECT ROUND 3: “SEALINK SOUTH”

(Orange)

- Fiber to the home in Klawock, Craig, and Hollis.
- Subsea fiber interconnecting Coffman Cove, Hollis, and Ketchikan. (2025)
- Work scheduled to occur through 2027.



Google Earth

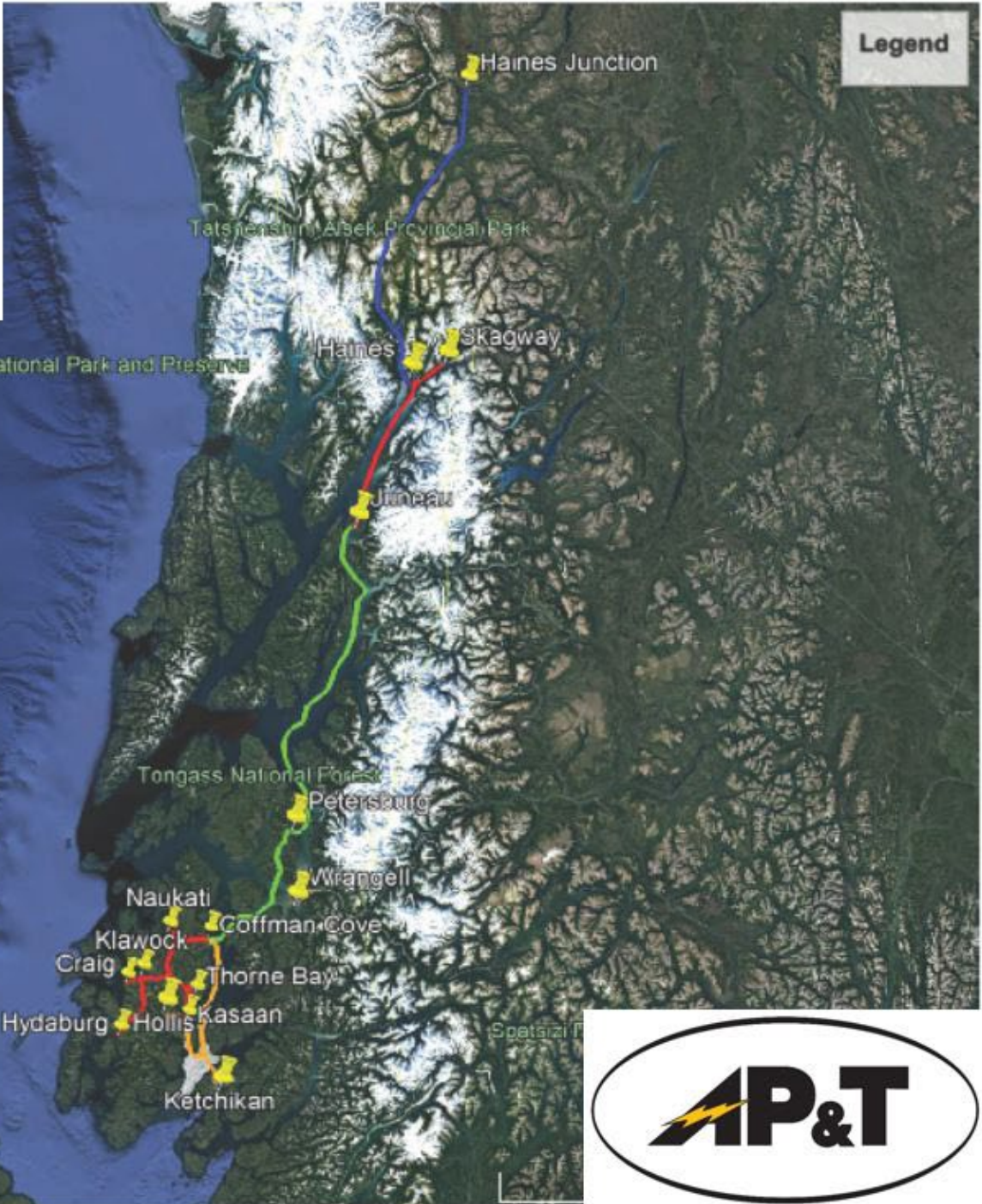
Data LDEO-Columbia, NSF, NOAA

Image Landsat / Copernicus

Image IBCAO

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Klukwan-Skagway Fiber



RECONNECT ROUND 3: "KLUKWAN-SKAGWAY FIBER"

(Blue)

- Fiber from Haines to outlying communities, including Klukwan.
- Fiber to the home in areas outlying Skagway (Dyea)
- Supports goal to develop fiber to Haines Junction in Yukon Territory.
- Work scheduled to occur through 2027

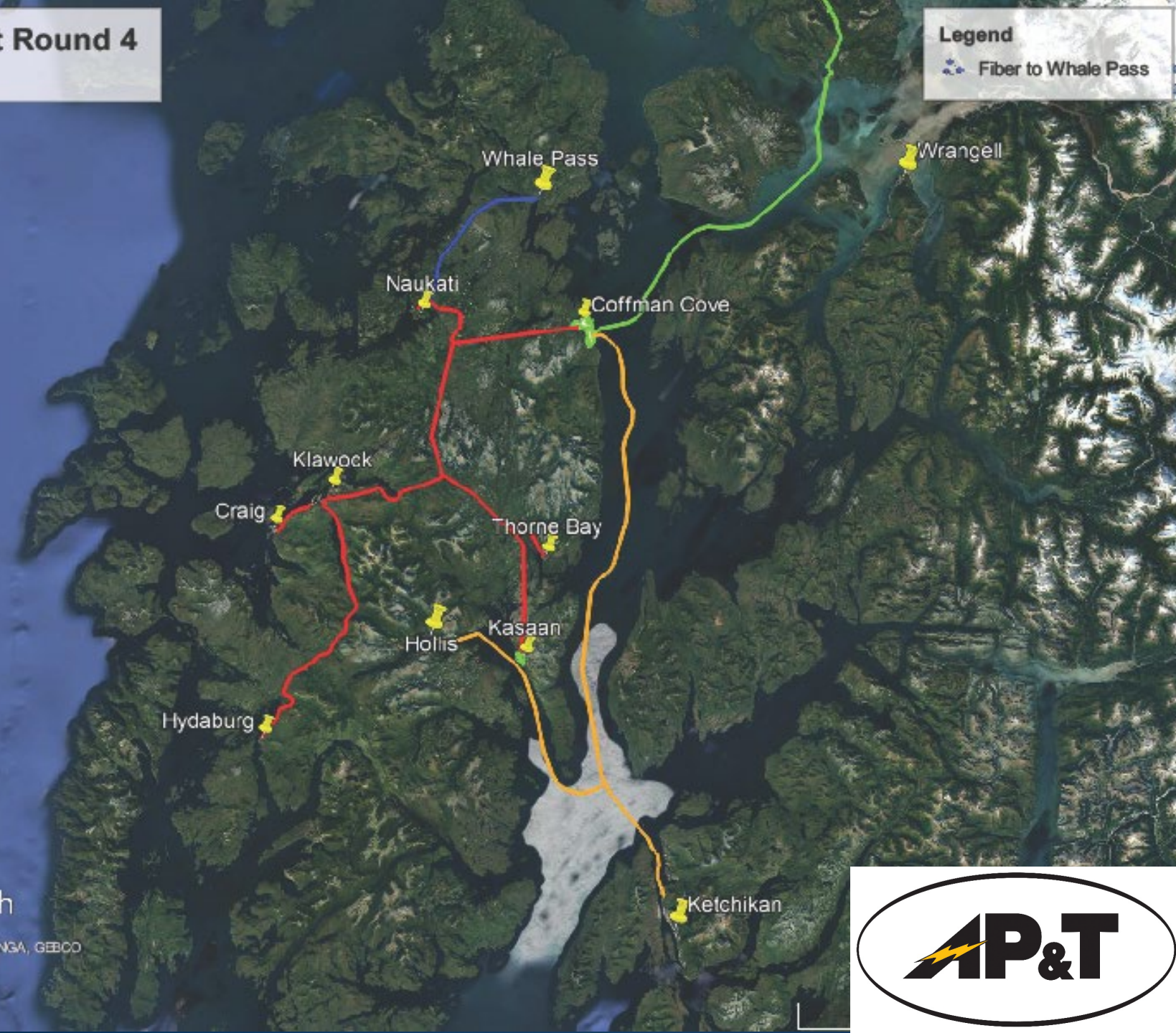
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ReConnect Round 4

Legend
Fiber to Whale Pass



RECONNECT ROUND 4 REQUESTS

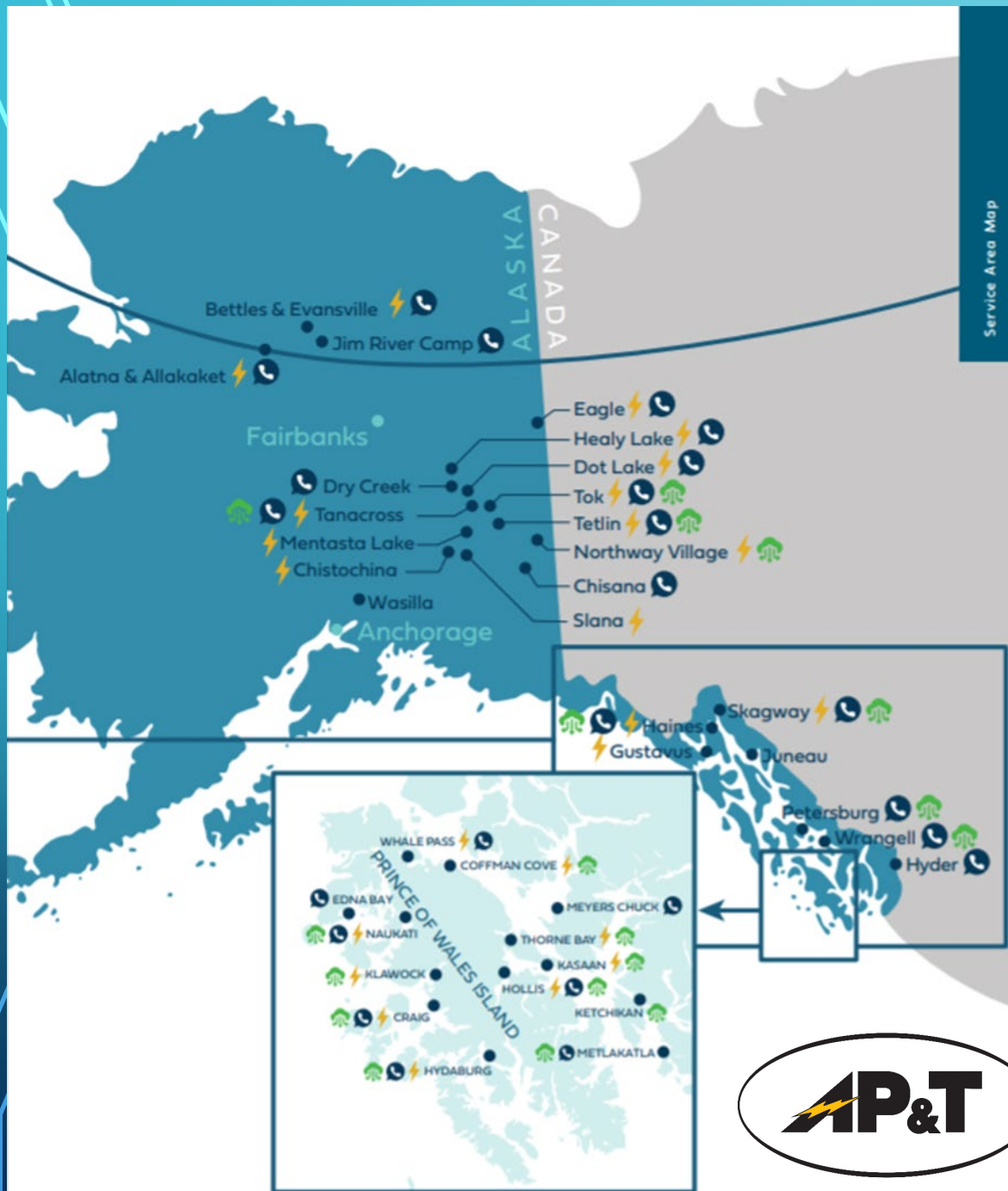
- Transport fiber to Whale Pass. (Former Tongass logging community)
- Fiber to the home in the Alaska Native village of Hydaburg, and former the Tongass logging communities of Thorne Bay and Whale Pass.
- Work would occur through 2028.
- Development of a pole line to Whale Pass will help support a potential future electrical intertie allowing this diesel generation-reliant community to use surpluses of locally available hydropower.

Google Earth

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat/ Copernicus
Image BCAC
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KEY TAKEAWAYS FROM RECENT PROJECTS



- **Order early.** Inflation and long lead-times pose serious challenges to projects, especially for high-demand Buy American-compliant items.
- **Find common ground.** Early engagement with tribal, municipal, and environmental group stakeholders can help build trust, and optimize a project concept that receives broad support.
- **Leverage private sector experience** to complete projects.
 - Existing industry experience – construction and O&M
 - Procurement and contract management experience
 - Matching funds
- Many US suppliers do not have the legal and administrative resources required to confirm Buy American requirements and certify compliance. (Ex: subcomponents in equipment.) This can make it difficult to deal with small businesses, rural contractors, etc. (USDA Buy American includes various non-US countries.)
- Federal agencies lack standard contracts and processes that fit unique Alaska project requirements. Flexibilities are needed.
- It is essential that State and Federal agencies are adequately staffed with capable permitting specialists.
- Assign adequate project management resources to developer and agency efforts. Project and risk management are critical disciplines.



THANKS FROM AP&T!



SEALink



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