

ALASKA POWER & TELEPHONE FIBER OPTIC INITIATIVES

January, 2023



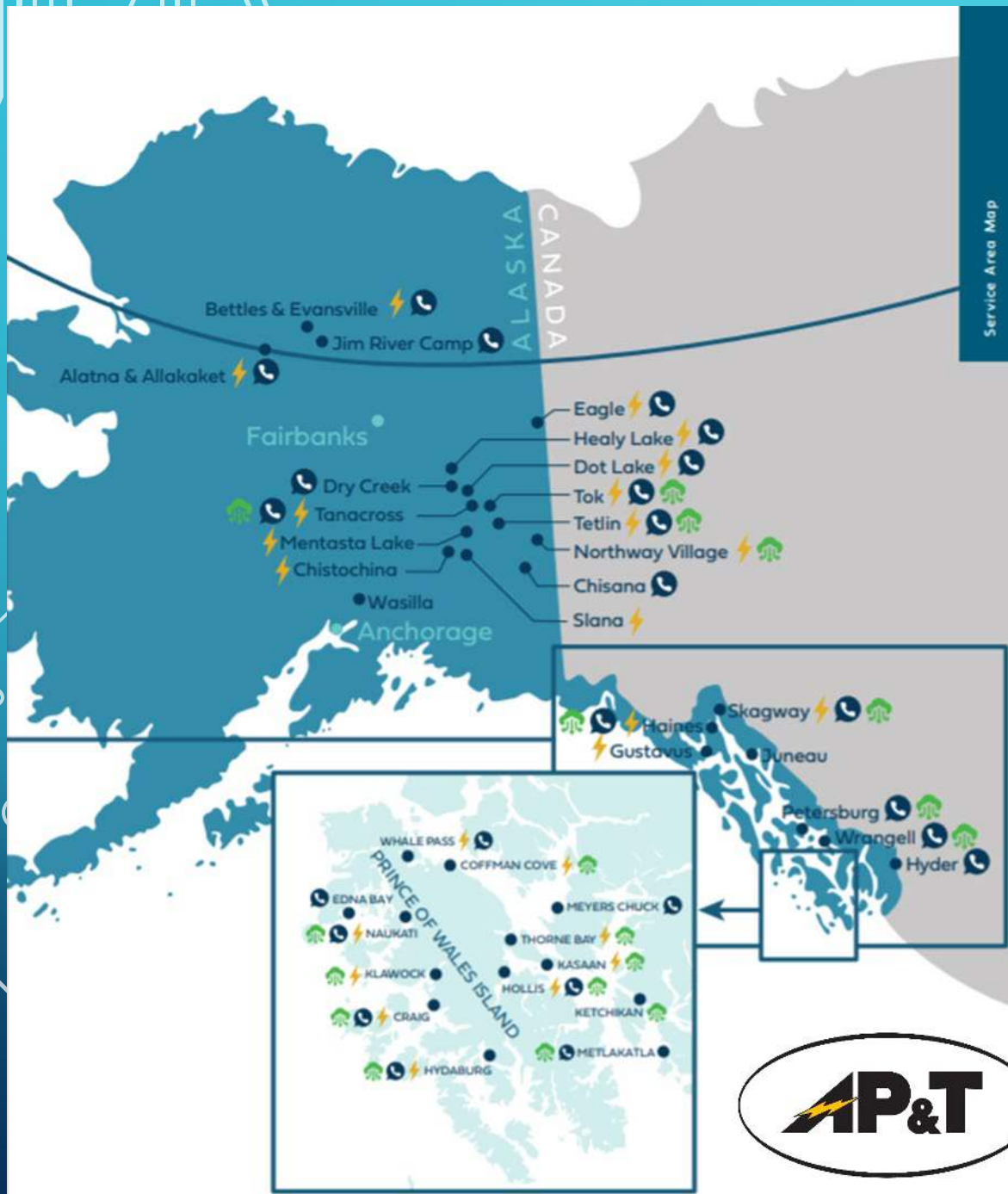
Jason Custer, VP Business Development
E: Jason.c@aptalaska.com C: 907-617-3773
www.aptalaska.com



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

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!**

Google Earth

Data: LDEO-Columbia, NSF, NOAA

Image: Landsat / Copernicus

Image: IBCAO

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





RECONNECT ROUND 2 PROJECT: “SEALINK”

(Green)

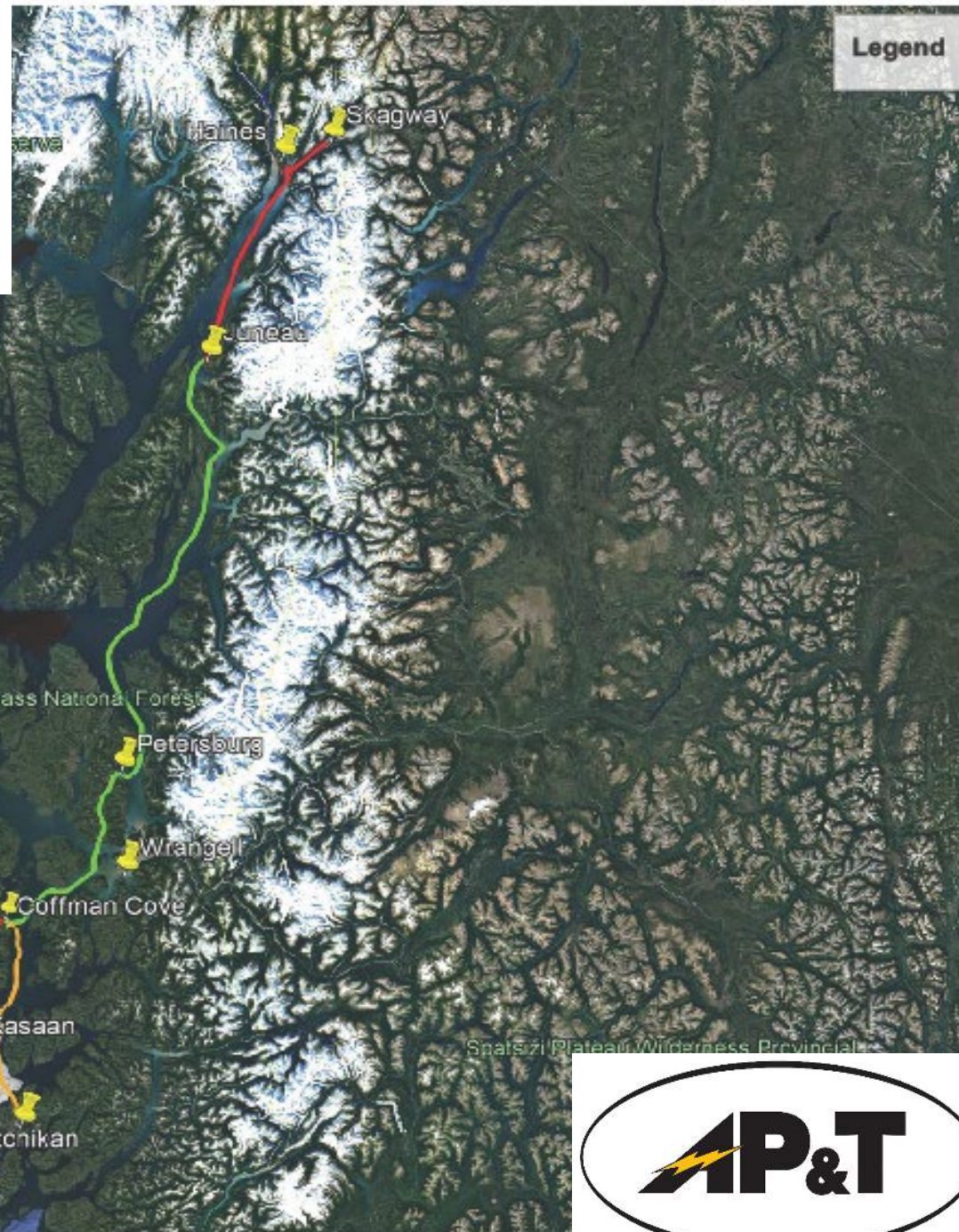
- **SEALink cable system – subsea fiber optic cable interconnecting Juneau, Petersburg, and Coffman Cove. (Completed late October, 2022)**
- **Fiber to the home installations in Coffman Cove and Kasaan. (2023)**
- **Provides a platform supporting continued improvement of services.**

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)

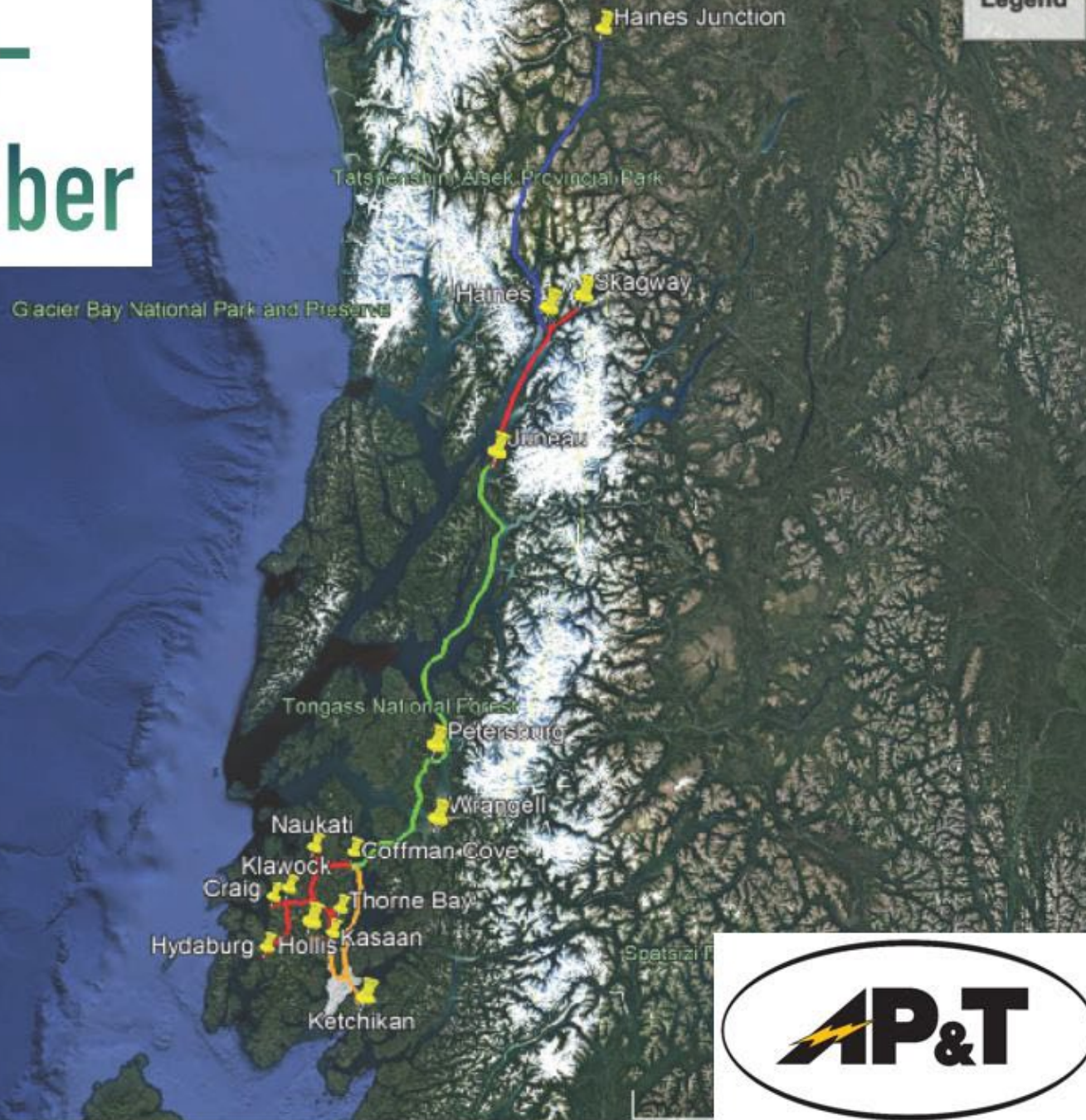
- Fiber to the home in Klawock, Craig, and Hollis.
- Subsea fiber interconnecting Coffman Cove, Hollis, and Ketchikan. (2025)
- Work scheduled to occur through 2027.



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



ReConnect Round 4

Legend

Fiber to Whale Pass

RECONNECT ROUND 4 REQUESTS

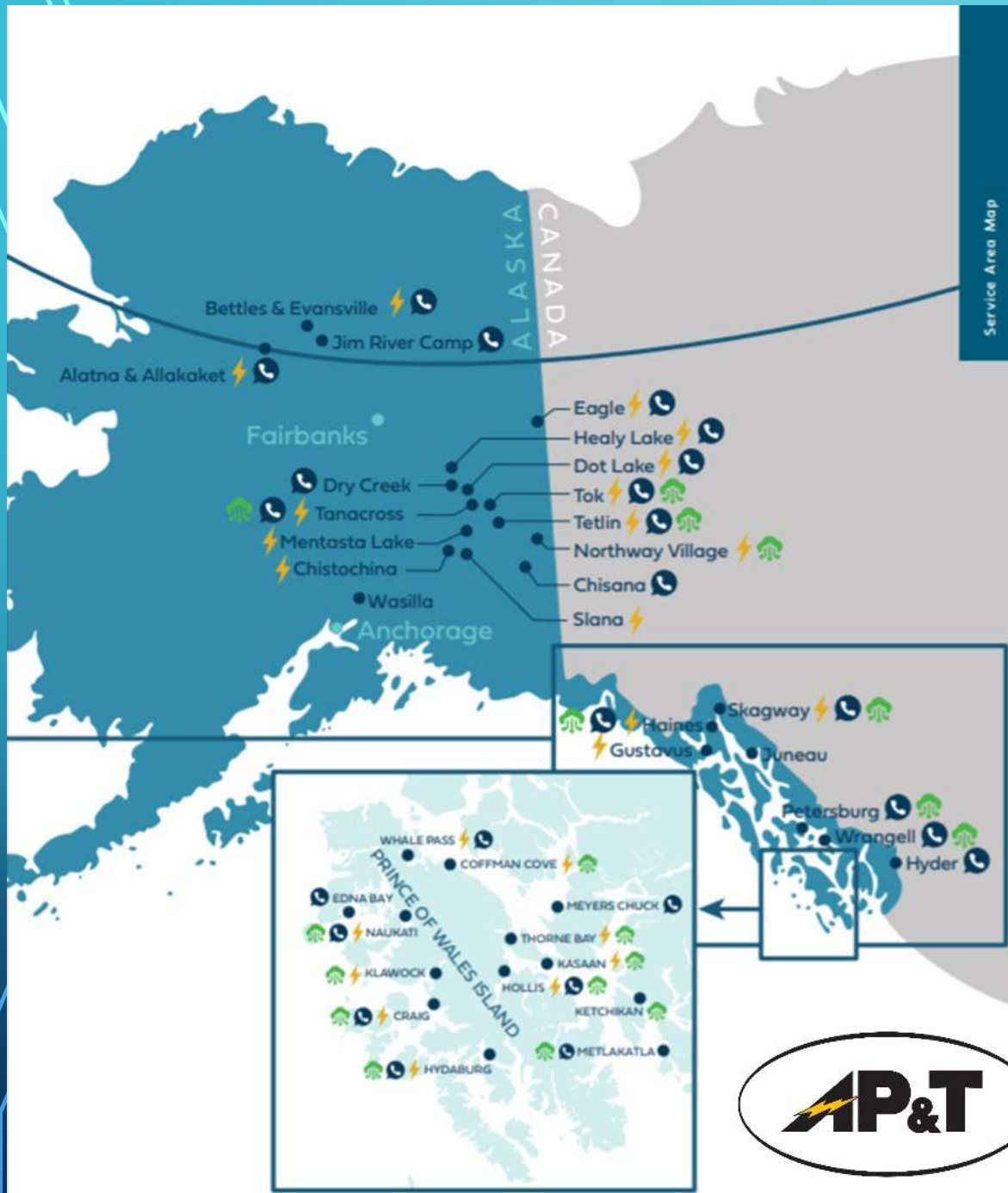
- Transport fiber to Whale Pass. (Former Tongass logging community)
- Fiber to the home in the Alaska Native village of Hydaburg, and former the Tongass logging communities of Thorne Bay and Whale Pass.
- Work would occur through 2028.
- Development of a pole line to Whale Pass will help support a potential 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!



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VP Business Development
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