

Future Transmission Options for the Railbelt

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What are the current and future transmission challenges?

Current Challenges

- Varied ownership
- Limited capacity
- Limited redundancy
- Other Challenges

Varied Ownership

Railbelt Utilities Service Territories

Six not-for-profit electric utilities:

Four cooperatives

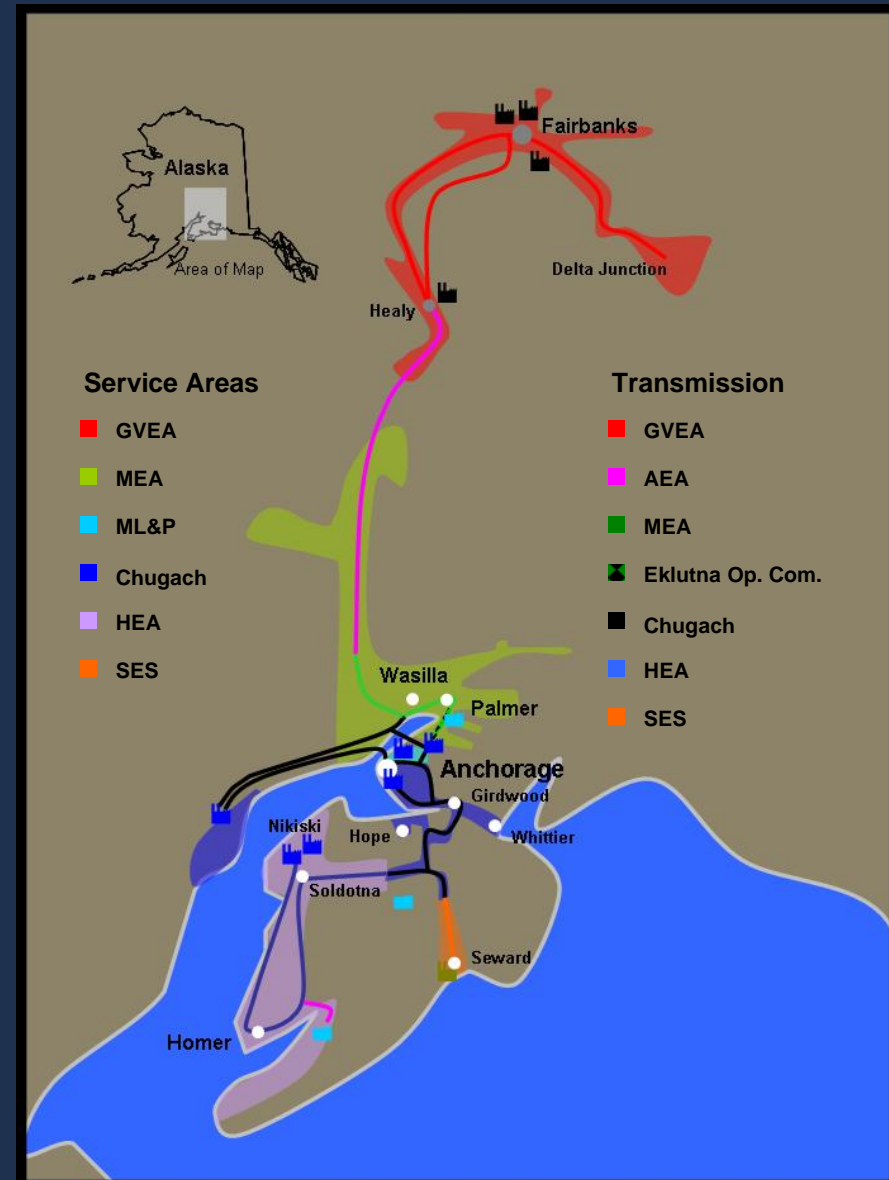
1. Chugach Electric
2. Golden Valley Electric
3. Matanuska Electric
4. Homer Electric

Two municipal systems

1. ML&P
2. Seward

Partnership (Eklutna line)

State-owned (Intertie, Bradley)



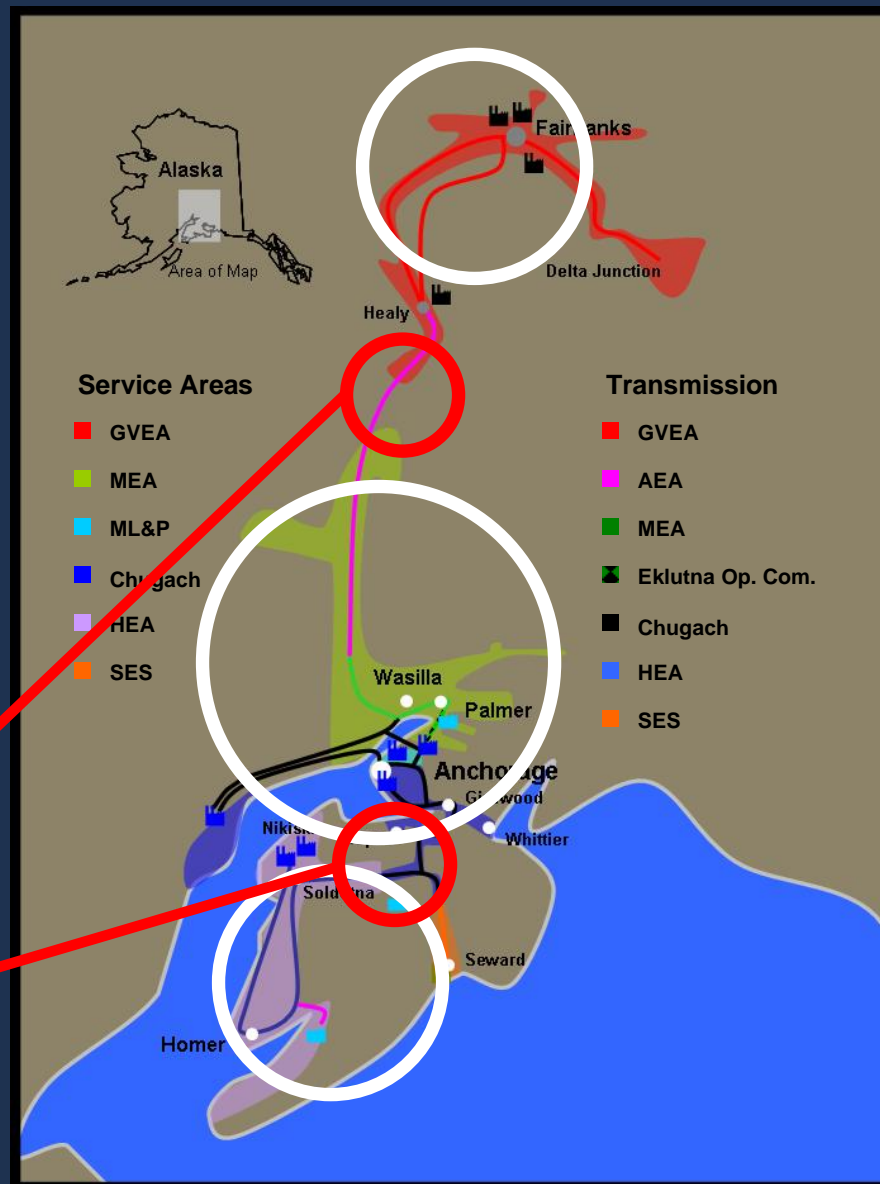
Limitations

Capacity, redundancy & voltages

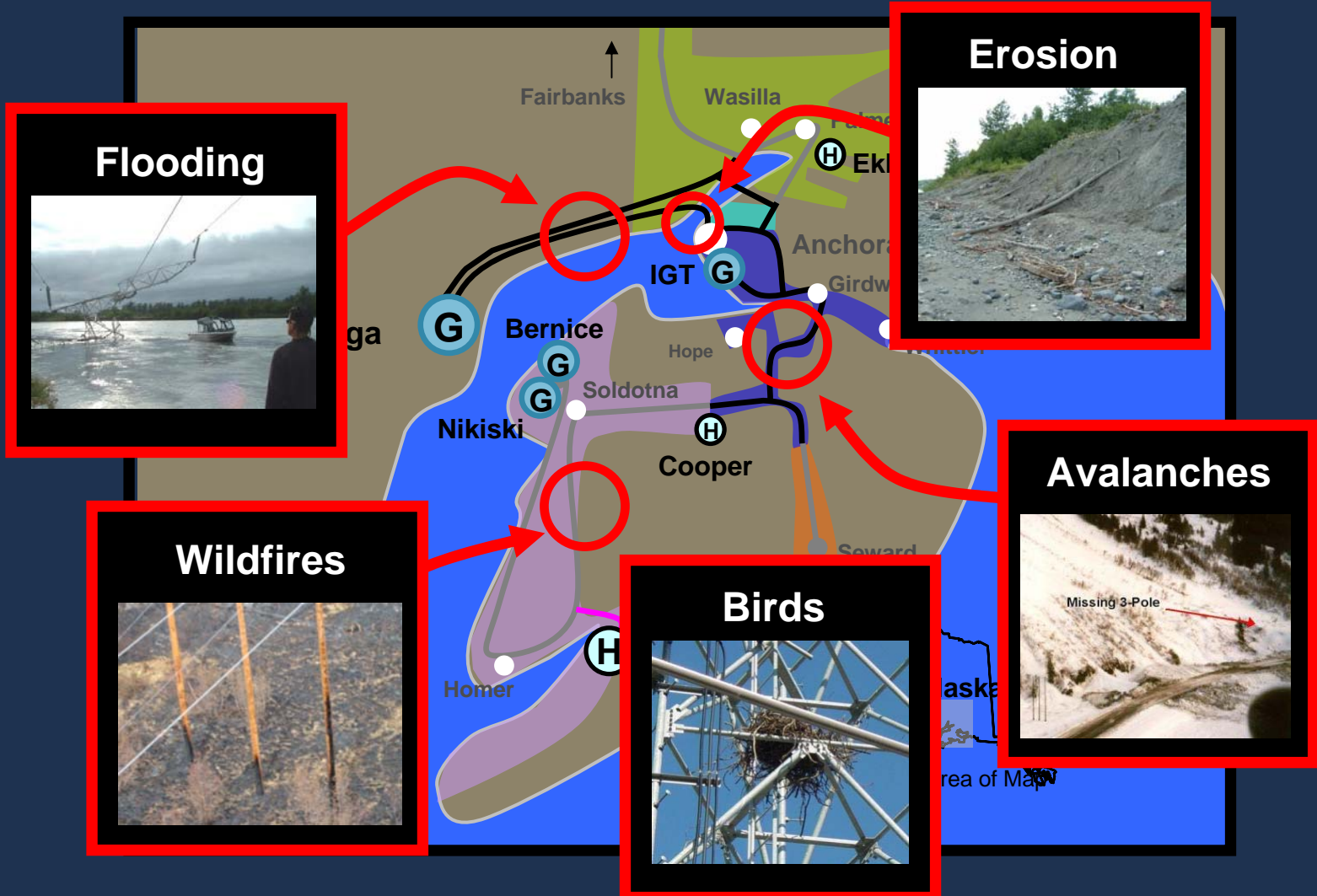
- Three islands of supply and demand
- Limited transmission capability
 - Capacity
 - Redundancy

Alaska Intertie
138kV
70 MW Capacity

Chugach
Southern 115 kV
75 MW Capacity



Transmission Environmental Challenges



Transmission

The Human Factor

Chainsaws



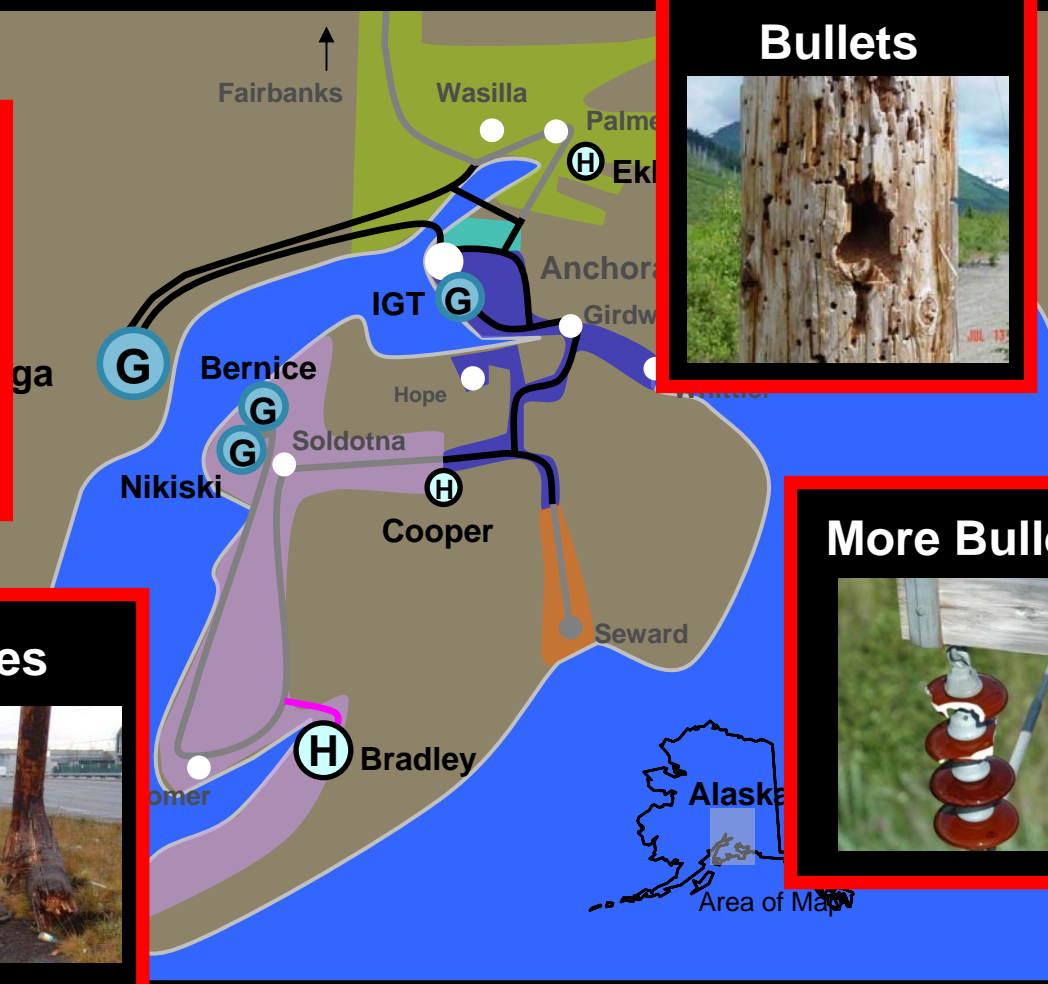
Bullets



Vehicles



More Bullets



New Transmission Challenges

- **Cost**
- **Cost-sharing**
- **Routing**
- **Access**
- **Ownership**

Possible Ownership /Control Models

- Utility ownership
- State ownership
- Utility partnerships
- Transmission cooperative, company, or authority
- G&T

Discussion

