



How GIS Maps Support 911

... and help bring Federal money to Alaska!

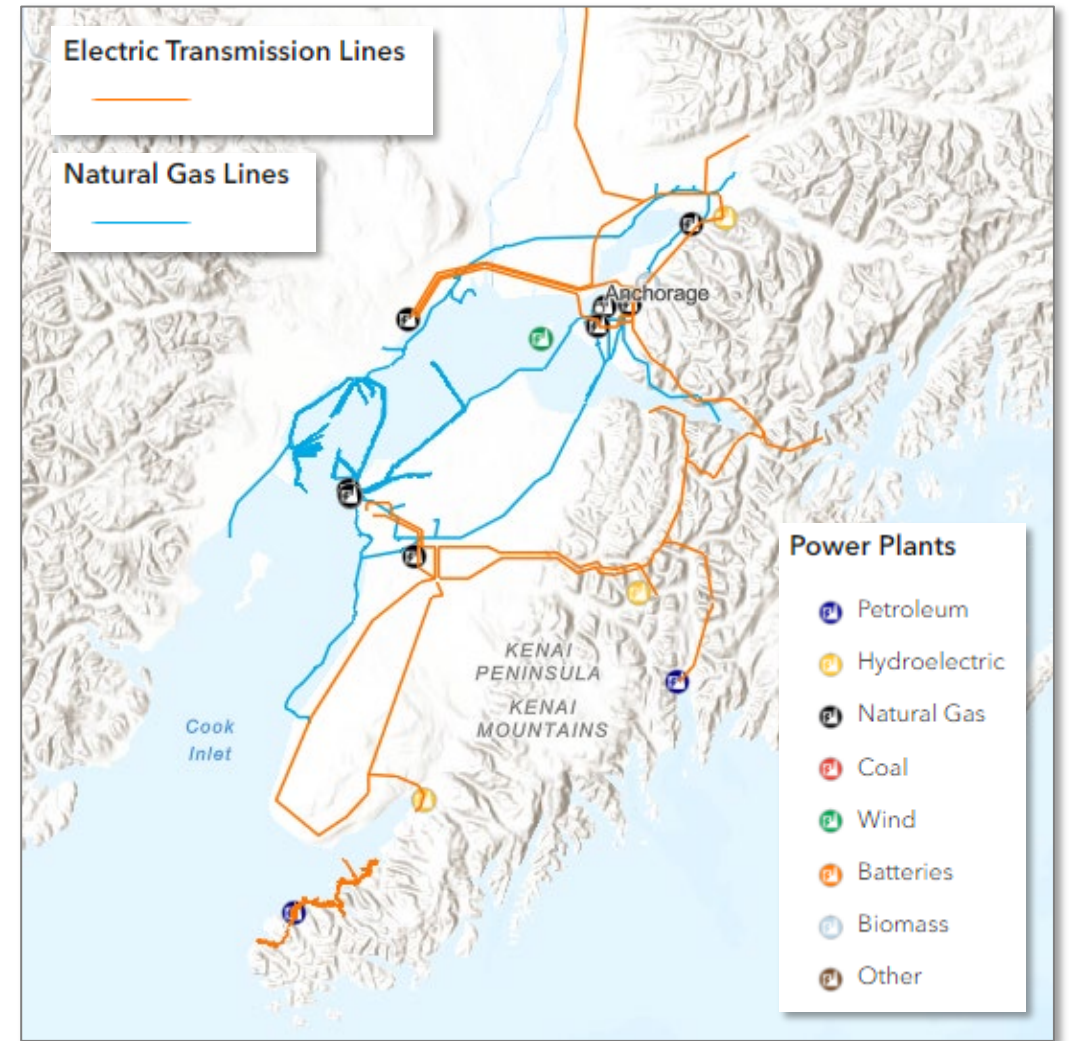
March 6th, 2024

Bettye Davis Room 106

What is GIS?

- Geographic Information Systems
- 85% of data has a “**WHERE**”
- Best visualized on a map!
- Spatial context makes it easy to understand complex issues

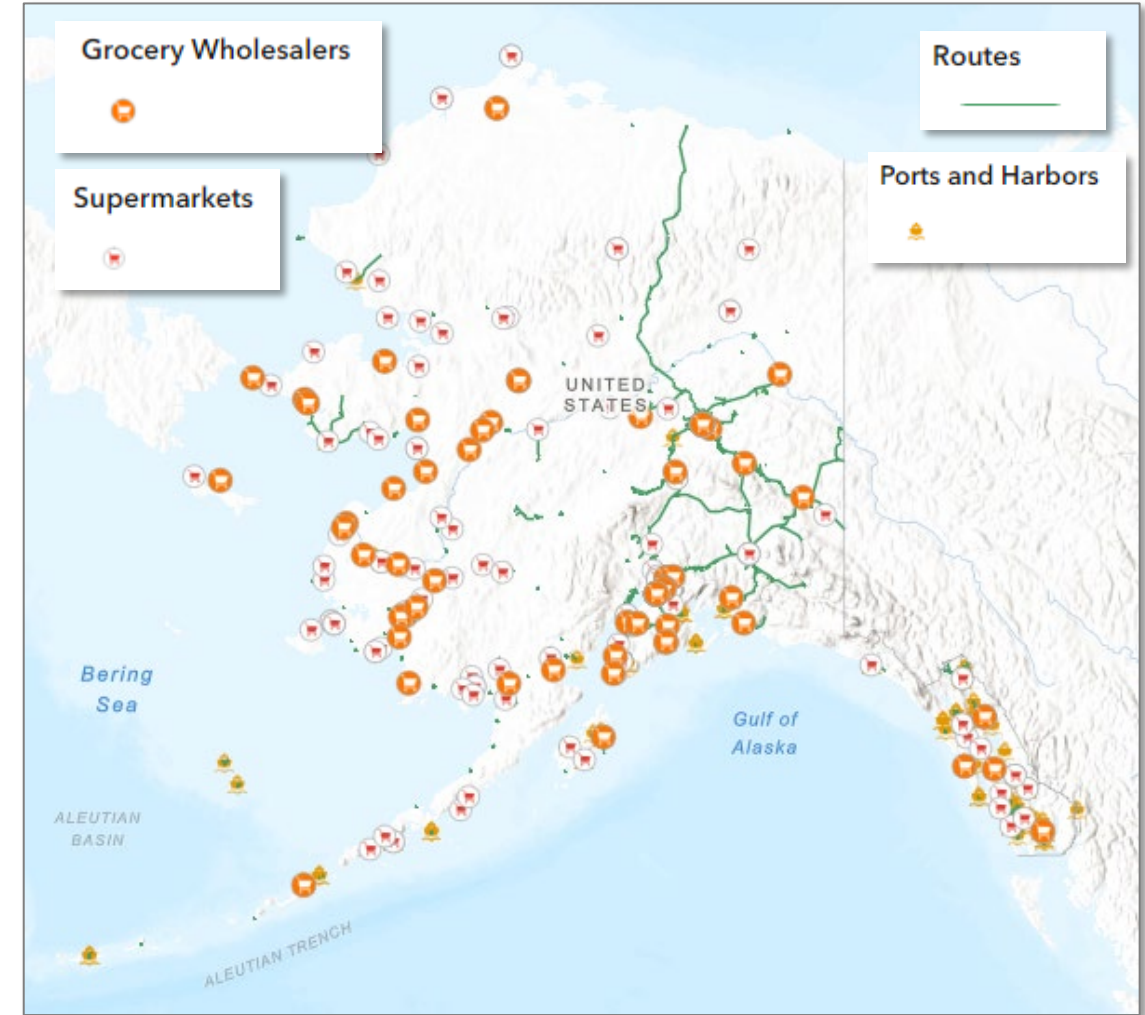
Southcentral Natural Gas Map



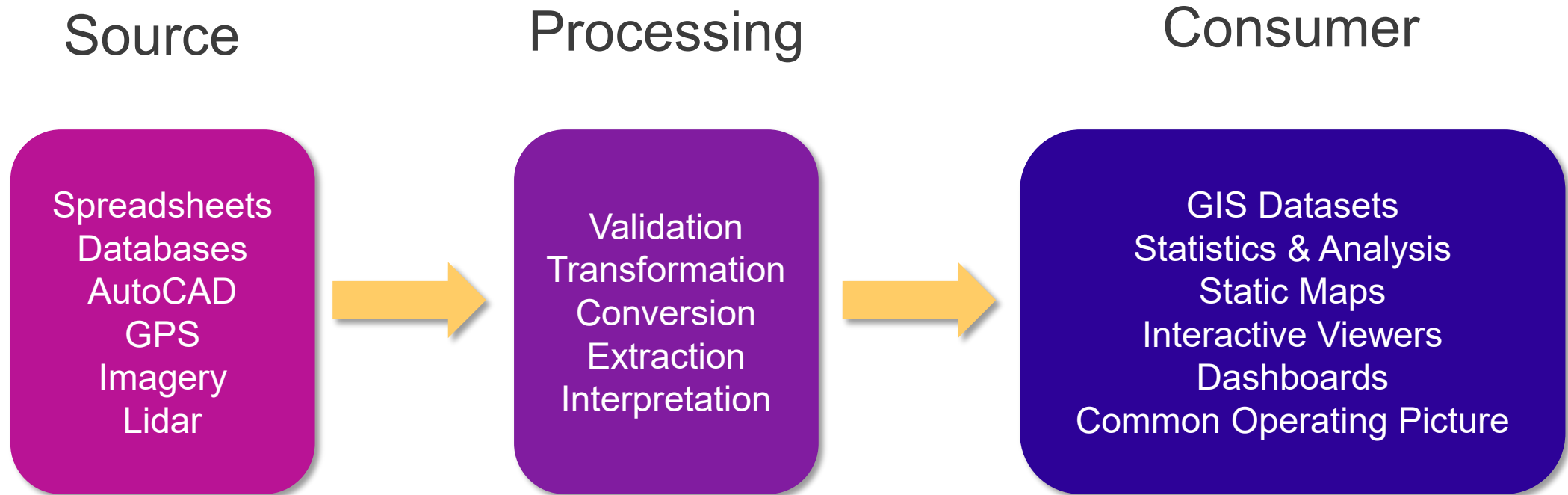
What is GIS?

- Geographic Information Systems
- 85% of data has a “**WHERE**”
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- Spatial context makes it easy to understand complex issues
- **Good Data = Good Decisions**

Alaska Grocery and Transportation Map

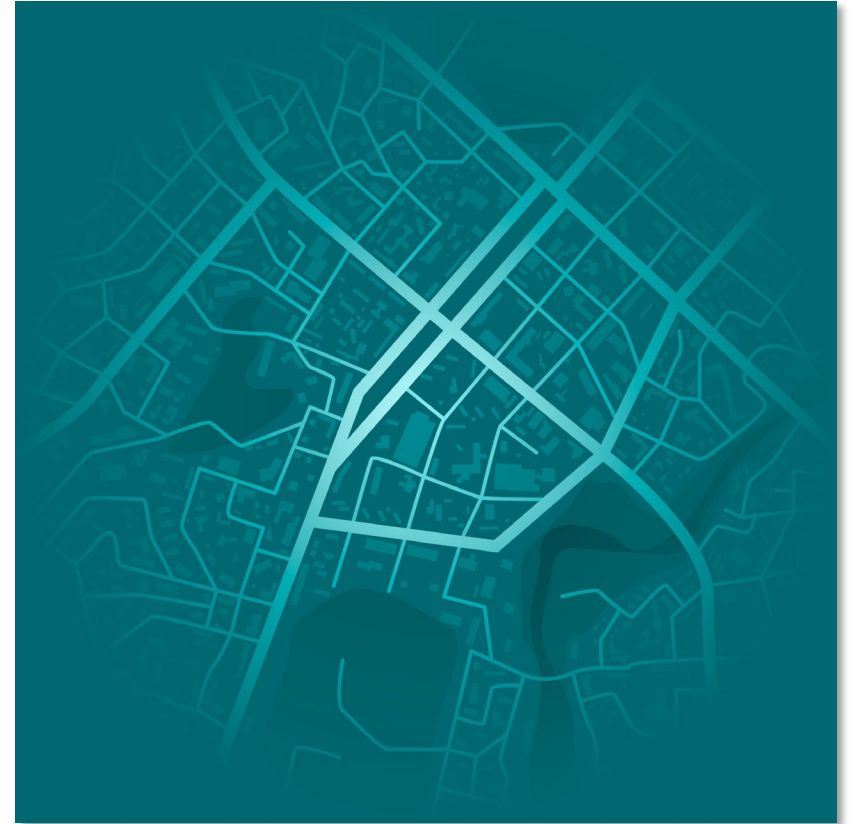


Information Has a Supply Chain too!



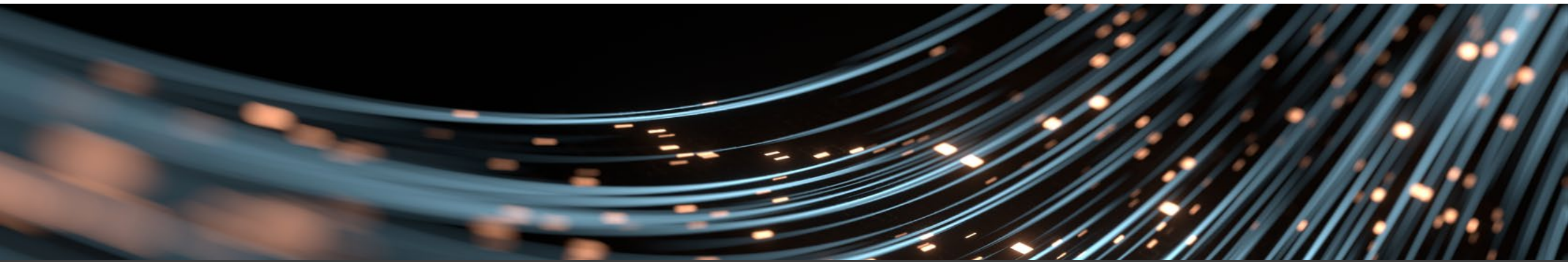
Important Decisions: When calling 911...

- Where is the caller?
- Where should the call be routed to?
- Which LAW/MED/FIRE unit should respond?
- Knowledge of local landmarks & place names helps!



Next Generation 9-1-1

- Moving away from system designed in the 1960's based on copper landline + switches
- Emergency Services-dedicated IP network “ESInet” where routing and location validation functions are performed using public safety grade GIS
- Multimedia interoperable (video, text, automatic location)

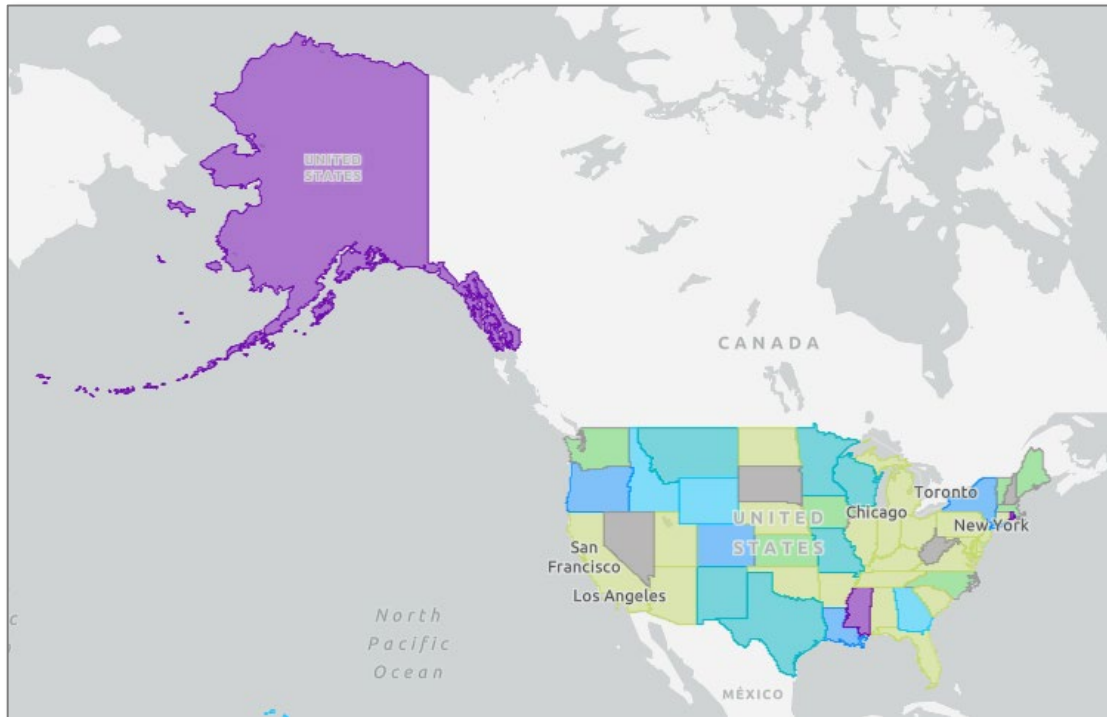


How Does Alaska Compare?

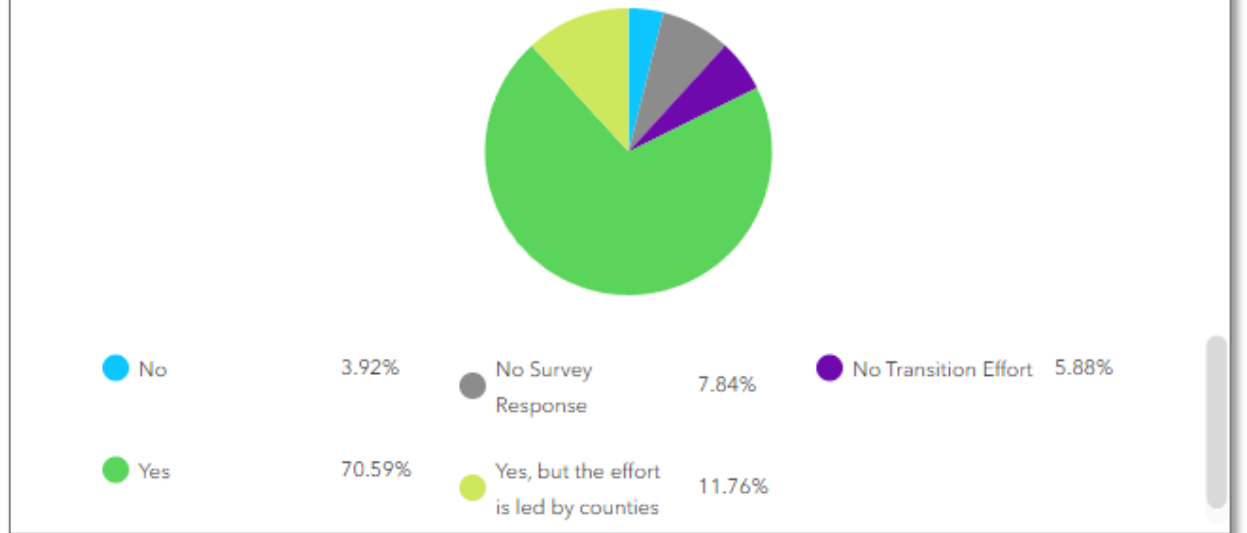
Alaska has Enhanced or Basic level of 9-1-1 service currently...

All but 3 states are moving toward NG9-1-1

(Alaska, Rhode Island, Alabama)



Is there an effort in your state to coordinate the development, normalization, aggregation, and/or distribution of GIS data in support of NG9-1-1?



statewide public safety GIS data
=
system redundancy & resiliency

Next Generation 9-1-1

- GIS datasets required for NG9-1-1:
 - **Addresses**
 - Roads
 - Response zones
 - Dispatch center boundaries
- Also need to know all places where an emergency can take place: bridges, rivers, lakes, parks, trailheads, businesses.
- Responders need to understand landscape, land ownership, site characteristics, hazardous materials...etc.



Physical Address aka Civic Address

- Sometimes different than mailing address
- Don't want paramedics showing up to your PO Box!
- FCC requires first responders and 911 to use physical address as the “valid dispatchable location”
- **Why are addresses so important?**
- **Why do they matter?**



Reason #1 Addresses Are Important

\$1 Billion to Alaska for Broadband!



- Project funded by the Rasmuson Foundation
- GIS data used to challenge FCC's "map" of Alaska
- **\$1,017,139,672.42** allocated to Alaska from BEAD program!

Ecopia contracted to leverage Alaska's most current, high-resolution statewide imagery to perform **building footprint feature extraction** using artificial intelligence and machine learning.



Dewberry contracted to **create statewide address & parcel datasets**, perform GIS analysis, prepare data for submission.



Bringing
Federal



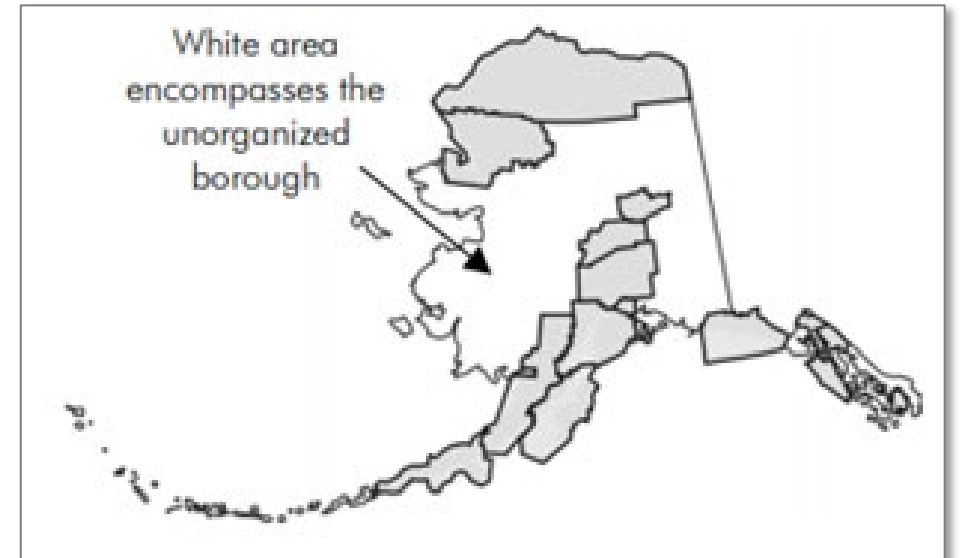
To Alaska!

Alaska Lacks Address Data for the Unorganized Borough

The problem of the Unorganized Borough:

- No local government to assign addresses
- Addressing authority hasn't been delegated by the legislature

Art. X, § 6 of Alaska's Constitution, the legislature shall provide for the performance of services it deems necessary or advisable in Unorganized Boroughs.



GIS Data Supports Many Funding Requests

- Grant Applications
 - USDOT, MARAD
 - FEMA Hazard Mitigation
 - USDA agriculture & processing
- USGS Critical Minerals Mapping
- Wetland mapping to decrease development start-up costs while protecting wildlife habitat

GIS HELPS BRING \$\$ TO ALASKA



Reason #2 Addresses Are Important

Location Intelligence is Critical to 9-1-1

Shout-out to Alaska's Address GIS Data Rock Stars!

Municipality of Anchorage: *Karleen Wilson & Todd Burns*

Fairbanks North Star Borough: *Dan Weatherly & Kim Streeter*

Kenai Peninsula Borough: *Celina Robinson & Rhea Leavitt*

Mat-Su Borough: *Nick Srebernak*

...many more + contractor support

Location Intelligence is Critical to 9-1-1

Shout-out to Alaska's 9-1-1 Dispatch Center Rock Stars!

Erann Kalwara

Dispatch Center Manager
Juneau Police Department

Lori Criqui

Dispatch Center Manager
Matcom Public Safety Dispatch Center

Erika Bishop

Statewide Dispatch Program Coordinator
Alaska State Troopers North Operations Center, Fairbanks

Did you know?

Dispatchers are
classified as
Clerical Staff
rather than as first
responders?

What does it mean?

They don't receive the
same benefits.
Your worst day is their
workday.
They're calm amid
chaos.



GAME TIME!

