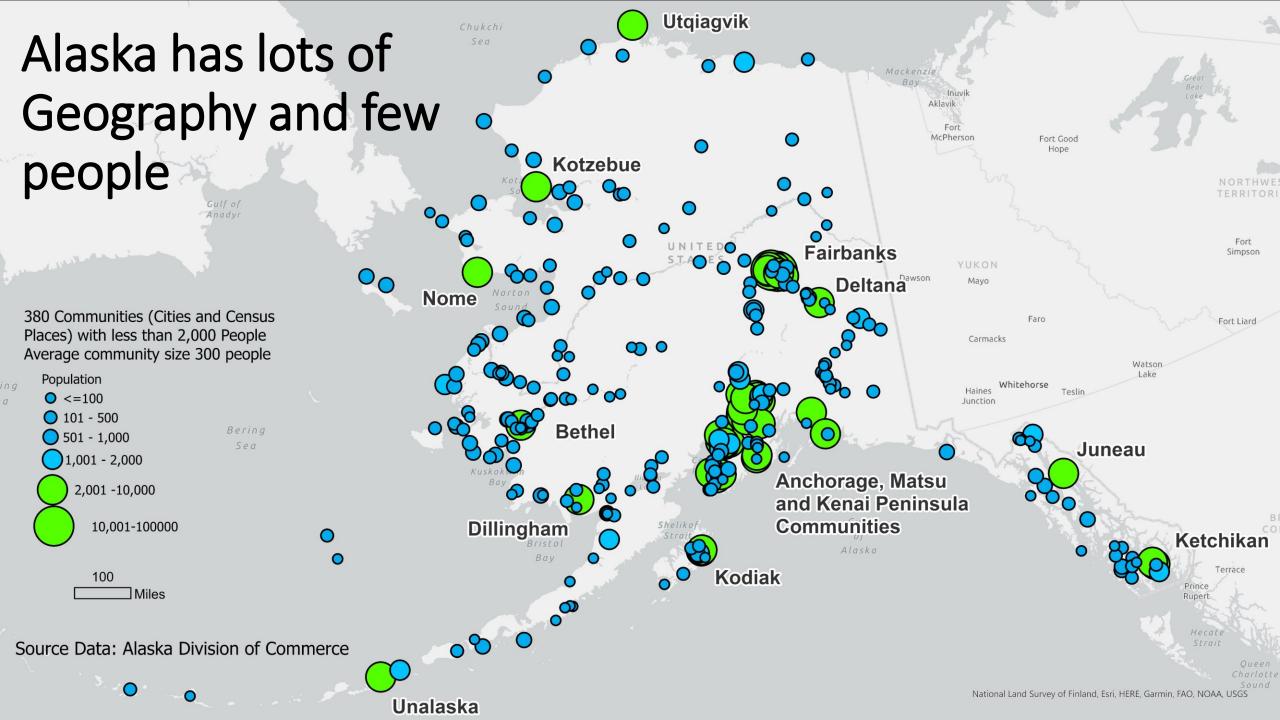
Mapping the needs for Alaska's future geospatial workforce

Problem statement – Small communities have been unable to develop GIS to support critical datasets and job positions

Alaska needs to develop creative alternative organizational solutions to overcome this issue.

Gary Greenberg
GISP, MBA, Alaska Map Company, LLC.
Based in Kenai
2 decades of experience developing GIS for Small and Remote
Alaskan Communities





GIS Industry Staffing Models

Even a minimally Staffed GIS department are expensive to develop

Software: \$12,000 – Small Community Enterprise GIS

Hardware: \$6,000

GIS Manager: \$70,000

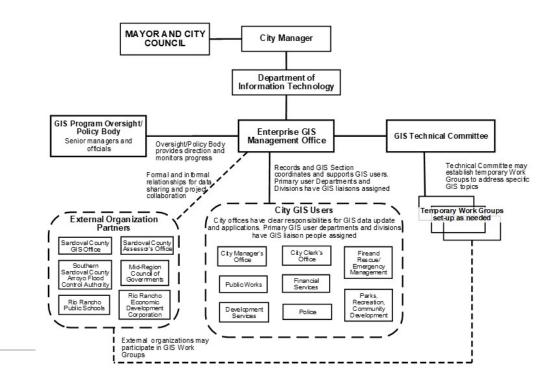
Data Specialist: \$50,000

Total: \$138,000

Per capita cost for a community of 300 = \$460

A larger community with a population of 100,000 can budget \$1,000,000 for GIS and the per capita cost is **\$10**

GIS costs 46 times more expensive for a small community!



Enterprise GIS Organizational Structure for a Municipality.

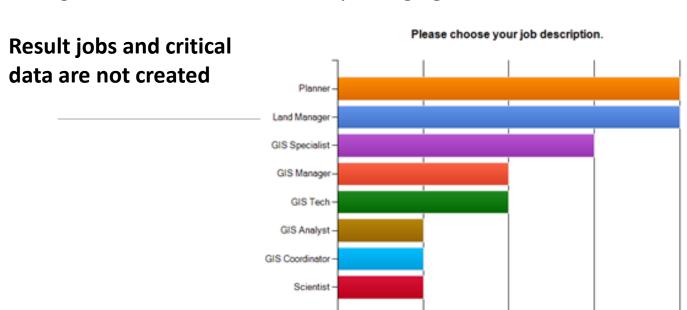
https://gistbok.ucgis.org/bok-topics/organizational-models-gis-management

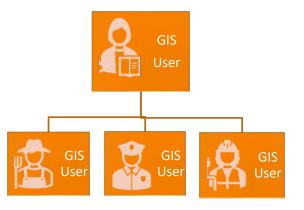
Most Common Organizational Models for Local Alaska GIS

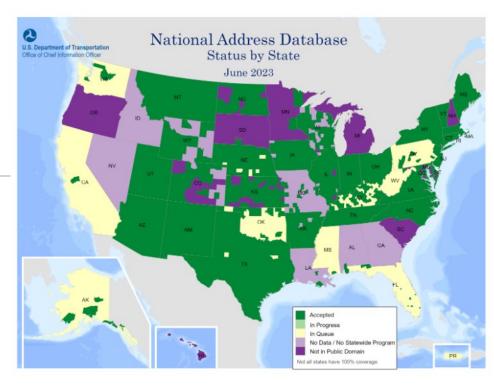
Many Organizations in Alaska don't have dedicated GIS Staff

GIS management is assigned as side task to a GIS user that has another profession

- Limited GIS Experience
- Limited time to dedicate to GIS
- Critical data doesn't get created
- Critical job positions don't get created
- High turnover causes constantly changing standards







GIS CONSORTIUM MEMBERS

The GIS Consortium consists of a diverse group of communities. They all share the same values of cooperation, commitment, quality, and efficiency. New members are considered based on

Alternative Models for GIS Management

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♥ View Members in a Map

Alternative GIS Program Management Options

- Independent Public Entity
- Outsourced
- Multi Organizational

https://gistbok.ucgis.org/bok-topics/organizational-models-gis-management

GIS Consortium – Local Governments That Work Collectively

MEMBER NAME	COUNTY	MEMBER SINCE	POPULATION	AREA (SQ. MILES)
City of Highland Park	Lake	2000	31,614	12.20
Village of Glencoe	Cook	2000	8,762	3.79
City of Park Ridge	Cook	2000	37,775	7.12
Village of Lincolnshire	Lake	2000	7,039	4.60
City of Des Plaines	Cook	2002	57,062	14.38
Village of Deerfield	Cook/Lake	2002	18,420	5.56
Village of Morton Grove	Cook	2003	22,451	5.09
sell five if	- 1	2222	10.107	2.00

Multi Organizational shared resource Pilot Project CVRF economies of scale though collaboration and standards

Coastal villages region fund has created a shared resource model by leveraging the support of it's member communities.

Because of this we have been able to develop the foundation for a modern GIS that will supports all the critical functions in a community that require GIS. If the same model and processes were adopted by the rest of the state <u>more work will gets done and more jobs get created.</u>

