Smart Communities need Smart Data

Alaska Geospatial Council

GeoPortal Technical Working Group

Presented at the Alaska Smart Communities Forum February 7, 2017

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People · Systems · Data

2006-2012

Alaska Mapped

www.alaskamapped.org

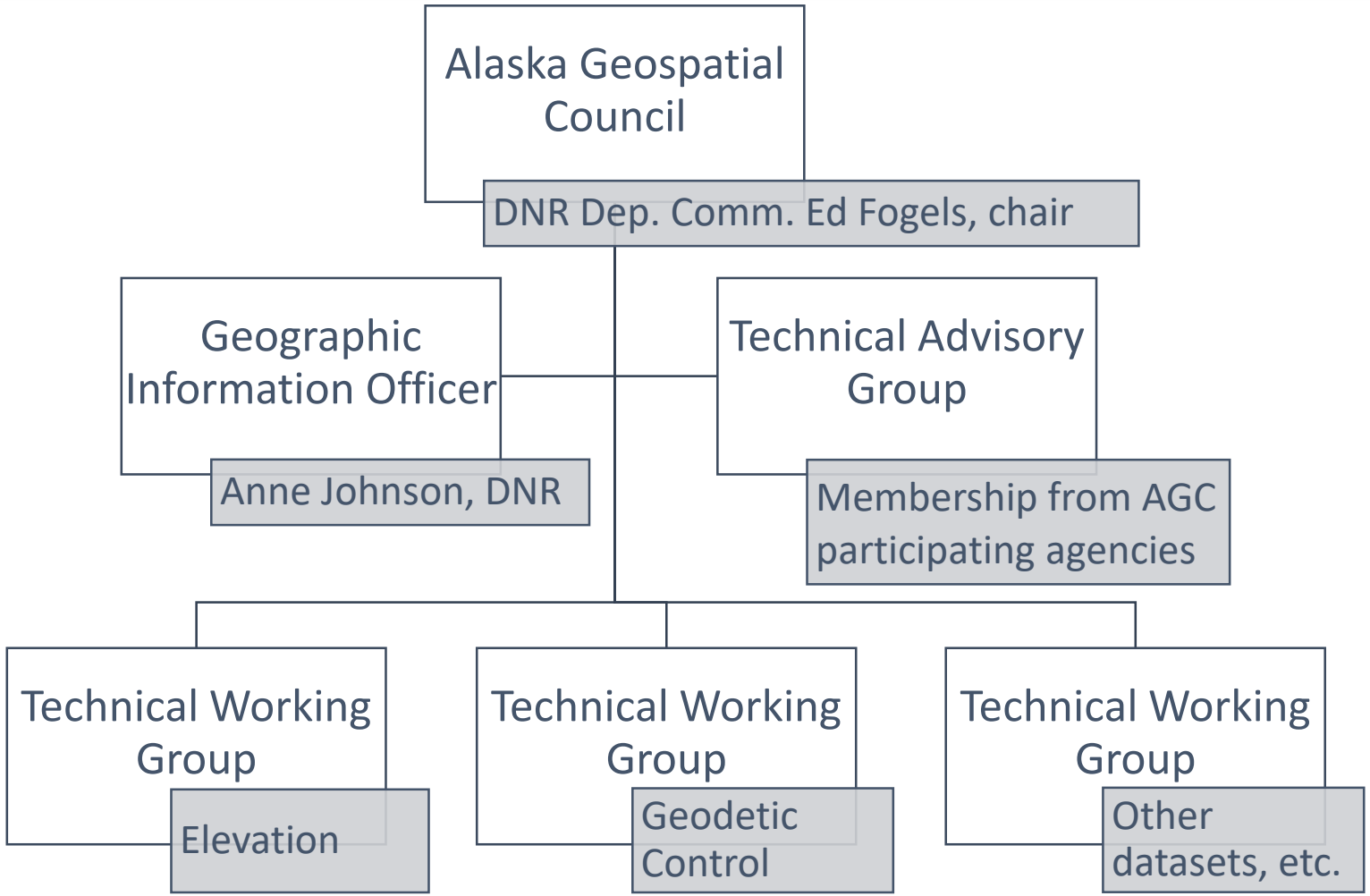
Alaska Statewide Digital Mapping Initiative

Primary goals:

1. **Acquire new and better maps** for Alaska, and

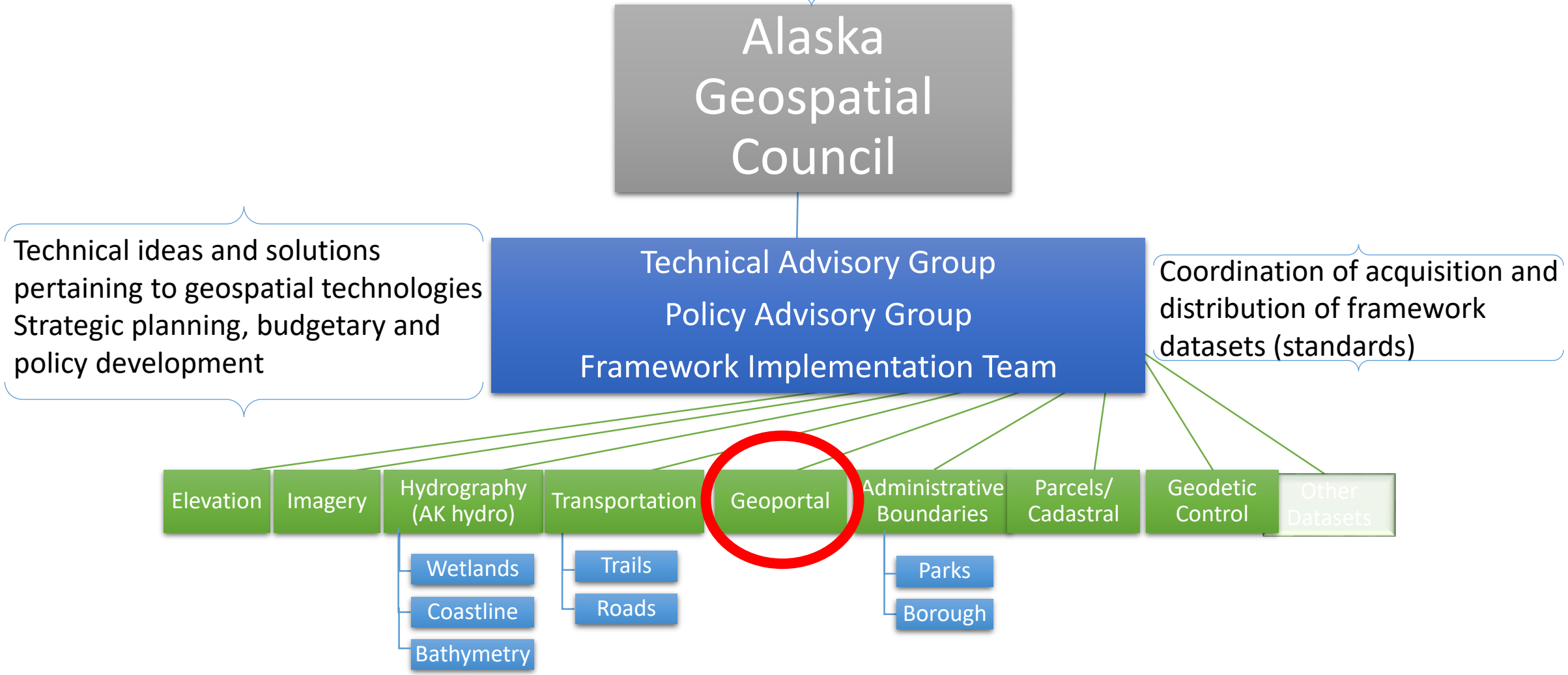
2. **Make existing map products more easily available**.

Alaska Geospatial Council



People · Systems· Data

Collaborative development of geospatial infrastructure



Working Groups: make recommendations for data acquisition, maintenance and distribution to Alaska Geospatial Council; develop data standards and define data models. Additional groups or subgroups deployed as needed.

State Geoportal:

Requirements

Low bandwidth access

Map tile download

Clip, zip, ship

Non-ftp and non-http access

Committed funding

Metadata publication

Reference non-hosted data

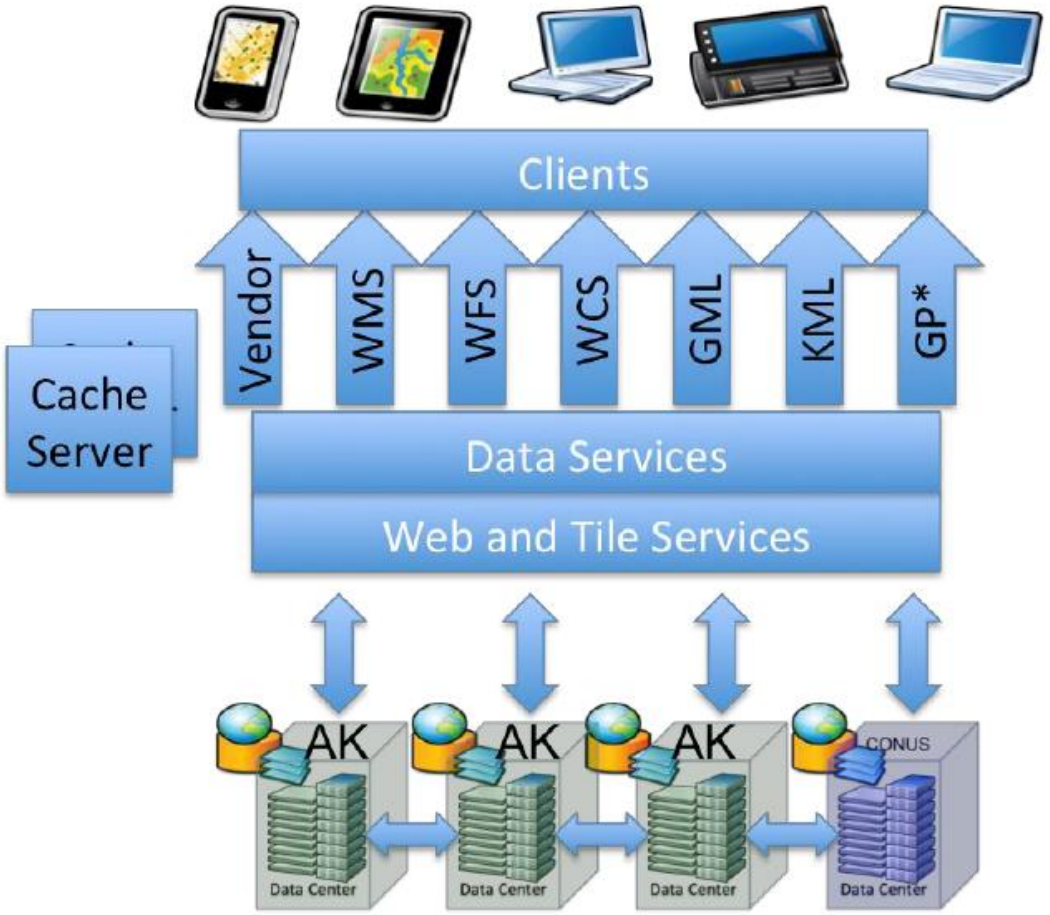
Authentication for restricted data

Data access logs

Data collaboration tool

COOP capability

Data archiving and redundancy



http://agc.dnr.alaska.gov/geoportal.cfm

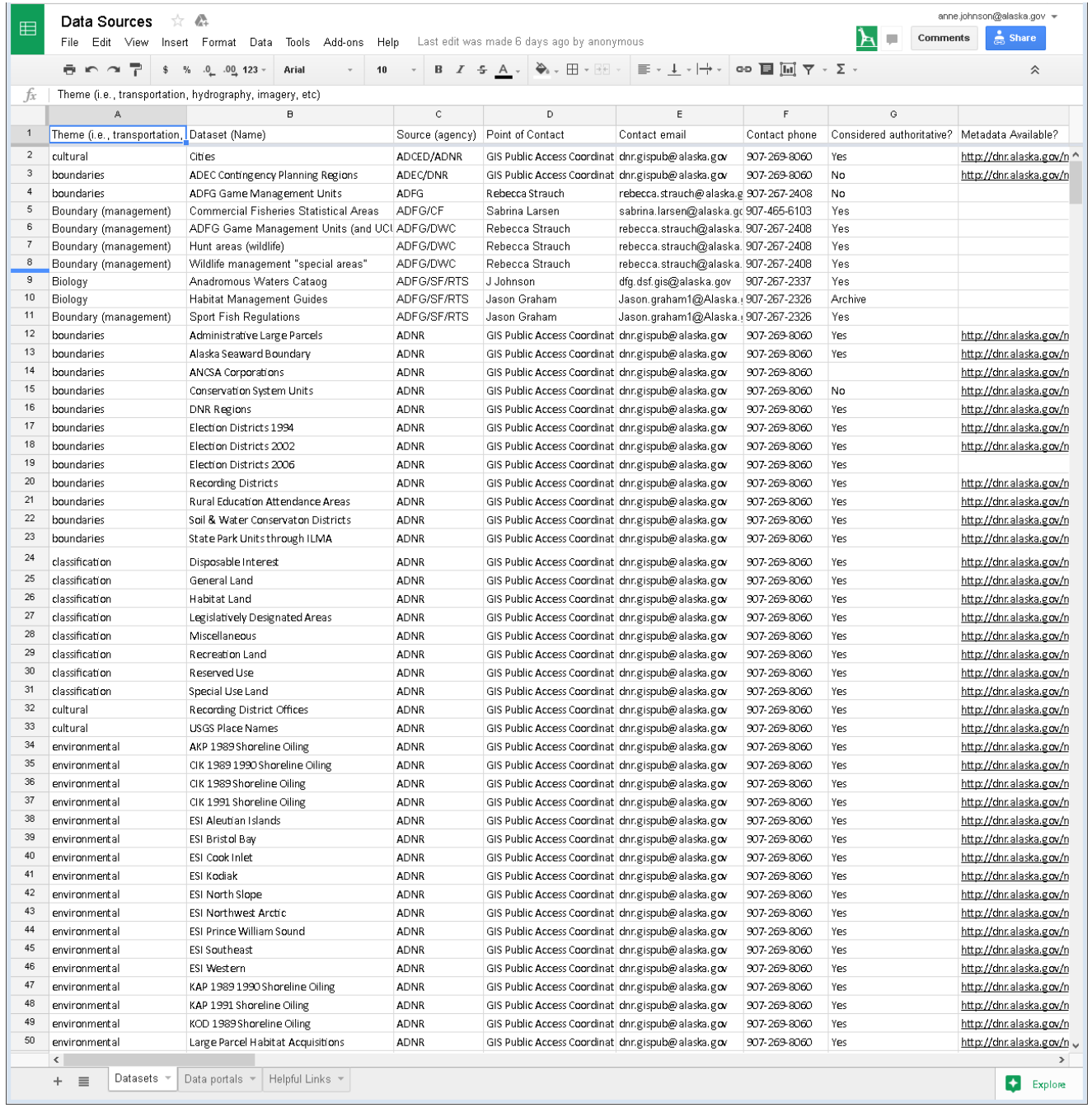
Alaska Geospatial Council
Geoportal Technical Working Group

- Kick off Meeting Nov. 3
- Met Dec. 7 and Jan. 11

- Alaska Biological Research
- Alaska Dept. of Environmental Conservation
- Alaska Dept. of Fish & Game
- Alaska Dept. of Natural Resources
- Alaska Dept. of Transportation
- Alaska Ocean Observing System
- Dewberry
- GeoNorth
- Joint Base Elmendorf-Richardson
- Matanuska-Susitna Borough
- Municipality of Anchorage
- Pipeline Open Data Standard
- Resource Data, Inc.
- U.S. Geological Survey
- U.S. Forest Service
- University of Alaska

Data Sources

- Google spreadsheet
- 236 data sources added so far
- ~80% with available metadata online
- Problems with metadata consistency



Data Sources

File Edit View Insert Format Data Tools Add-ons Help Last edit was made 6 days ago by anonymous

anne.johnson@alaska.gov

Comments Share

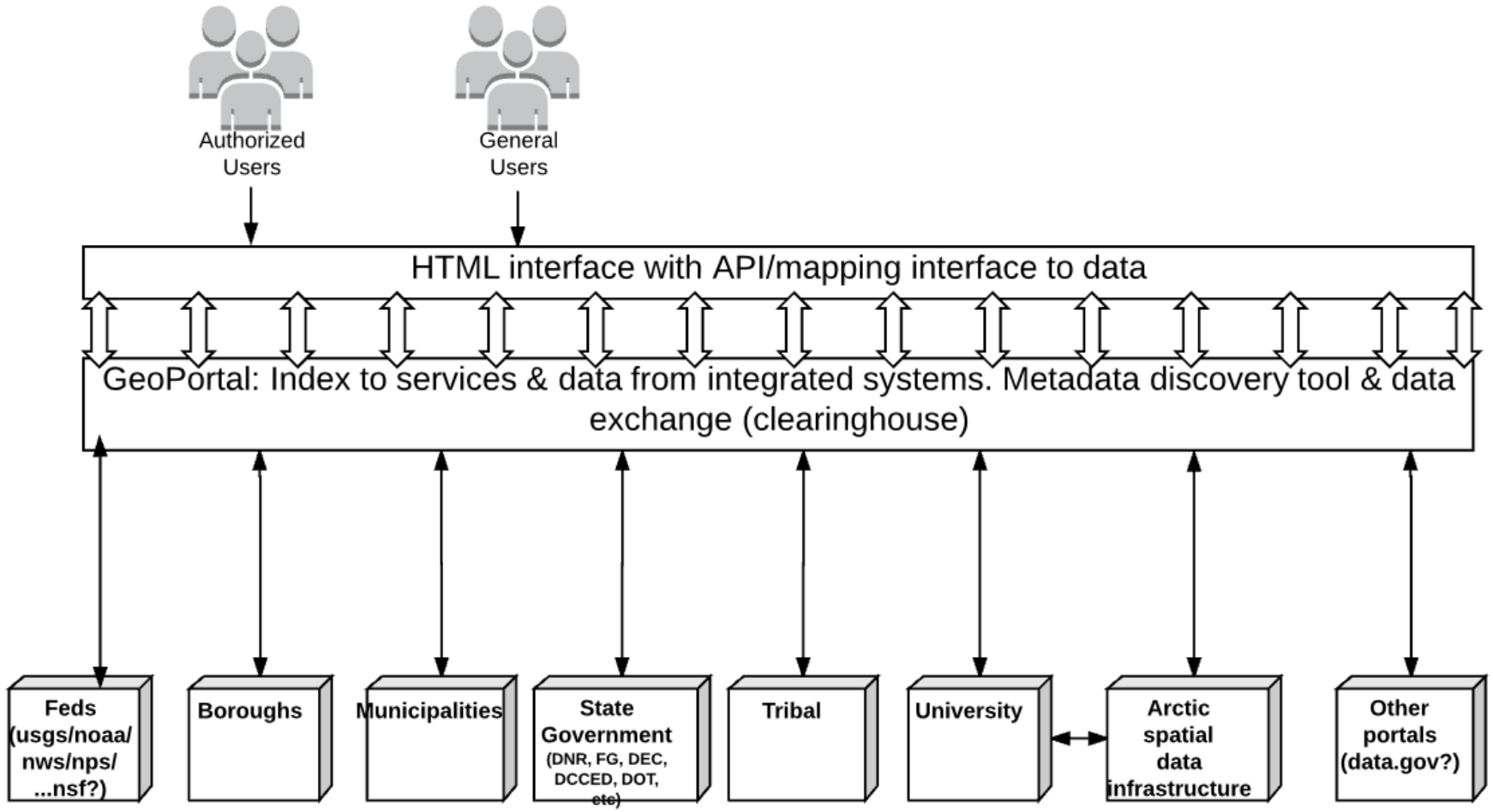
Theme (i.e., transportation, hydrography, imagery, etc)

	A	B	C	D	E	F	G	
1	Theme (i.e., transportation,	Dataset (Name)	Source (agency)	Point of Contact	Contact email	Contact phone	Considered authoritative?	Metadata Available?
2	cultural	Cities	ADCED/ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
3	boundaries	ADEC Contingency Planning Regions	ADEC/DNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	No	http://dnr.alaska.gov/n
4	boundaries	ADFG Game Management Units	ADFG	Rebecca Strauch	rebecca.strauch@alaska.g	907-267-2408	No	
5	Boundary (management)	Commercial Fisheries Statistical Areas	ADFG/CF	Sabrina Larsen	sabrina.larsen@alaska.gc	907-465-6103	Yes	
6	Boundary (management)	ADFG Game Management Units (and UCI	ADFG/DWC	Rebecca Strauch	rebecca.strauch@alaska.	907-267-2408	Yes	
7	Boundary (management)	Hunt areas (wildlife)	ADFG/DWC	Rebecca Strauch	rebecca.strauch@alaska.	907-267-2408	Yes	
8	Boundary (management)	Wildlife management "special areas"	ADFG/DWC	Rebecca Strauch	rebecca.strauch@alaska.	907-267-2408	Yes	
9	Biology	Anadromous Waters Cataog	ADFG/SF/RTS	J Johnson	dfg.dsf.gis@alaska.gov	907-267-2337	Yes	
10	Biology	Habitat Management Guides	ADFG/SF/RTS	Jason Graham	Jason.graham1@Alaska.(	907-267-2326	Archive	
11	Boundary (management)	Sport Fish Regulations	ADFG/SF/RTS	Jason Graham	Jason.graham1@Alaska.(	907-267-2326	Yes	
12	boundaries	Administrative Large Parcels	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
13	boundaries	Alaska Seaward Boundary	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
14	boundaries	ANCSA Corporations	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060		http://dnr.alaska.gov/n
15	boundaries	Conservation System Units	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	No	http://dnr.alaska.gov/n
16	boundaries	DNR Regions	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
17	boundaries	Election Districts 1994	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
18	boundaries	Election Districts 2002	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
19	boundaries	Election Districts 2006	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	
20	boundaries	Recording Districts	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
21	boundaries	Rural Education Attendance Areas	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
22	boundaries	Soil & Water Conservaton Districts	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
23	boundaries	State Park Units through ILMA	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
24	classification	Disposable Interest	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
25	classification	General Land	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
26	classification	Habitat Land	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
27	classification	Legislatively Designated Areas	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
28	classification	Miscellaneous	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
29	classification	Recreation Land	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
30	classification	Reserved Use	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
31	classification	Special Use Land	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
32	cultural	Recording District Offices	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
33	cultural	USGS Place Names	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
34	environmental	AKP 1989 Shoreline Oiling	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
35	environmental	CIK 1989 1990 Shoreline Oiling	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
36	environmental	CIK 1989 Shoreline Oiling	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
37	environmental	CIK 1991 Shoreline Oiling	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
38	environmental	ESI Aleutian Islands	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
39	environmental	ESI Bristol Bay	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
40	environmental	ESI Cook Inlet	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
41	environmental	ESI Kodiak	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
42	environmental	ESI North Slope	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
43	environmental	ESI Northwest Arctic	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
44	environmental	ESI Prince William Sound	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
45	environmental	ESI Southeast	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
46	environmental	ESI Western	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
47	environmental	KAP 1989 1990 Shoreline Oiling	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
48	environmental	KAP 1991 Shoreline Oiling	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
49	environmental	KOD 1989 Shoreline Oiling	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n
50	environmental	Large Parcel Habitat Acquisitions	ADNR	GIS Public Access Coordinat	dnr.gispub@alaska.gov	907-269-8060	Yes	http://dnr.alaska.gov/n

Datasets Data portals Helpful Links Explore

ALASKA GEOPORTAL CONCEPTUAL OVERVIEW

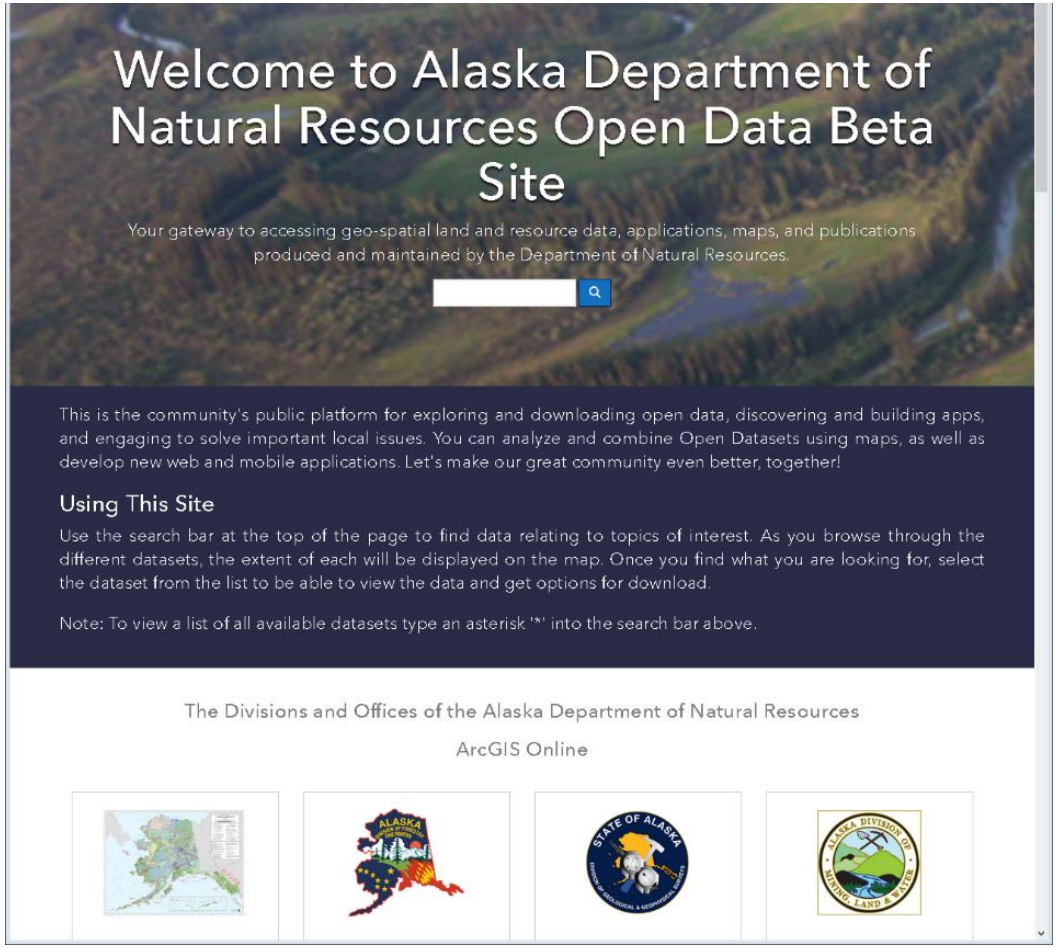
1. Safe
2. Sustainable
3. Reliable
4. Stable



Many agencies and organizations are already providing data. A state geoportal will search registered locations for datasets and return matching results to users. Data is not stored by the geoportal, which serves only as an indexed reference system which passes requests to hosting agencies.

Alaska Department of Natural Resources

- 7 Divisions
  - Agriculture, Forestry, Geological & Geophysical Surveys, Mining, Land & Water, Oil & Gas, Parks and Outdoor Recreation, and Support Services
- Esri Geoportal
- ArcGIS Online
- ArcGIS Open Data
- Alaska State Geospatial Data Clearinghouse



Questions?

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(907) 269-0880 | anne.johnson@alaska.gov