



Framework data are basic fundamental geospatial data, typically statewide in extent, intended to serve a set of common core purposes for a broad range of users. Framework datasets are organized into fifteen categories and are developed to agreed upon standards and maintained through a collaborative community based effort participated in by local, regional, and state level agencies within Oregon. Oregon's geospatial framework program began in 2001 with the goal of meeting the essential geospatial data needs of the state while minimizing duplication of effort and making these data easy to find and widely available.

Realizing the Vision of Oregon's GIS Framework

Oregon's Framework Implementation Team (FIT) is focused on the development and stewardship of the seven national GIS framework themes and eight commonly needed Oregon data themes.

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In the early 1990's, the federal government initiated a program to encourage states to develop seven statewide geographic datasets to facilitate the delivery of critical services to citizens and maximize public investment in transforming data into useable information. These thematic datasets are collectively referred to as **Framework** and are an integral component of the **National Spatial Data Infrastructure (NSDI)**. In 2001, Oregon envisioned it's own framework effort, going beyond the national vision and designated an additional eight themes as Framework, for a total of 15 themes. At that time, these 15 themes were further defined as a collection of multiple datasets, called data elements. The Oregon Framework now consists of more than 250 data elements and is the foundation of **navigatOR**, Oregon's GIS utility.

Standards: A fundamental component of the framework program in Oregon is the adoption of data standards to guide the development of framework data. Standards are an important product of the FITs.

Collaboration: Framework relies on voluntary collaboration by the local, state, federal, and private sector GIS community.

Authoritative Data: Framework seeks to build a central catalog of best available, authoritative data sets within each theme.

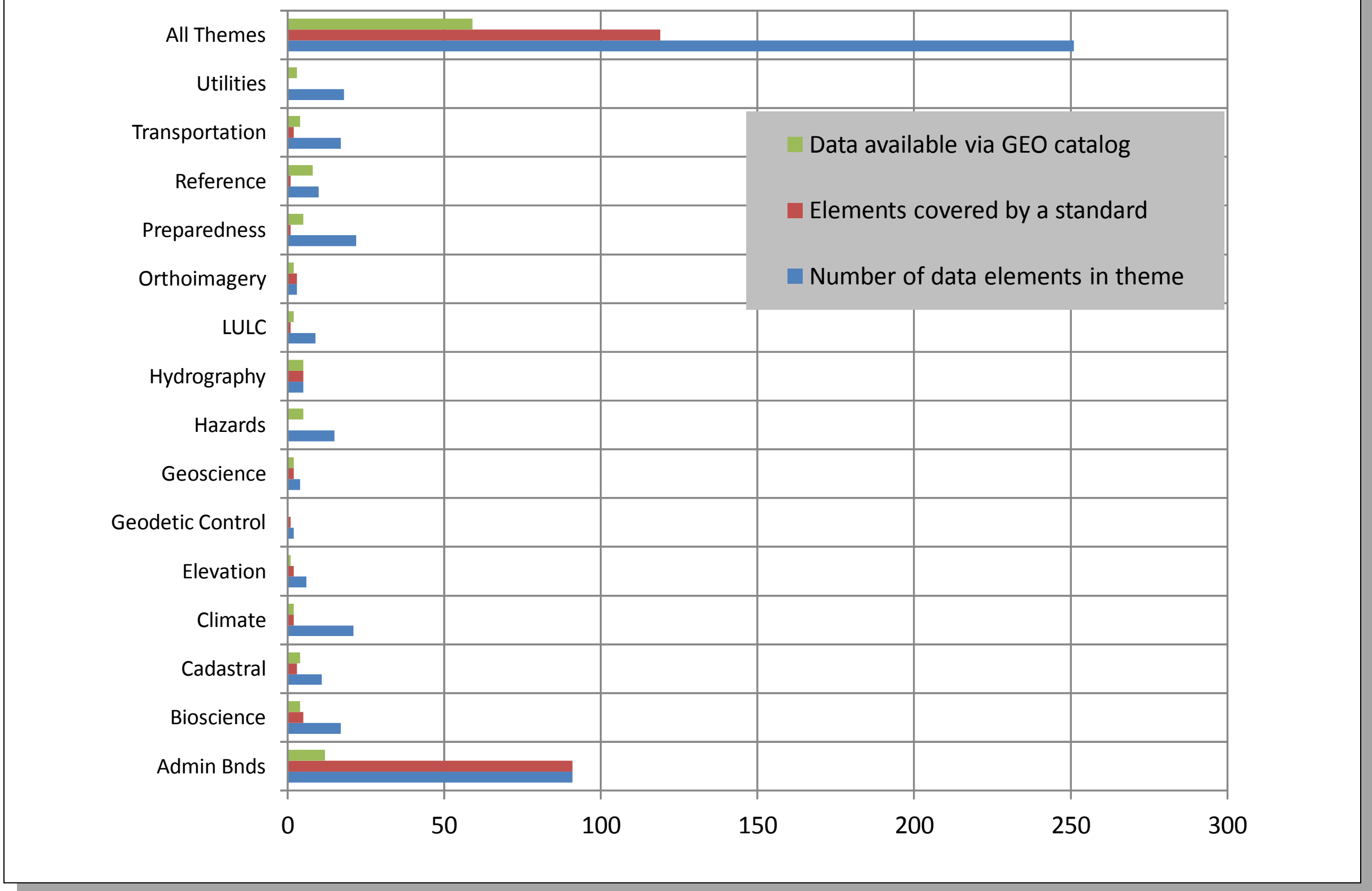
Data Sharing: A key element of the framework program is the facilitation of sharing by data stewards in order to realize the vision of data that is built once by the authoritative source and used by many in the community.

Stewardship: Data stewards work to insure data remain current, accurate, and well documented.

Realizing the vision of a shared, integrated, statewide, up-to-date geospatial infrastructure is a complex undertaking involving hundreds of contributors, millions of dollars, and a multi-year timeframe. The Oregon Framework effort is organized into theme specific Framework Implementation Teams (FITs), each chaired by a volunteer. FITs are assisted by a Framework Coordinator within the Department of Administration's Geospatial Enterprise Office (GEO). The Framework effort relies on collaboration within the GIS community within Oregon. The list of framework data elements is currently undergoing review and updating. If you are interested in participating, contact Bob DenOuden (Bob.DenOuden@state.or.us)

This poster describes the current state of the Framework effort in Oregon.

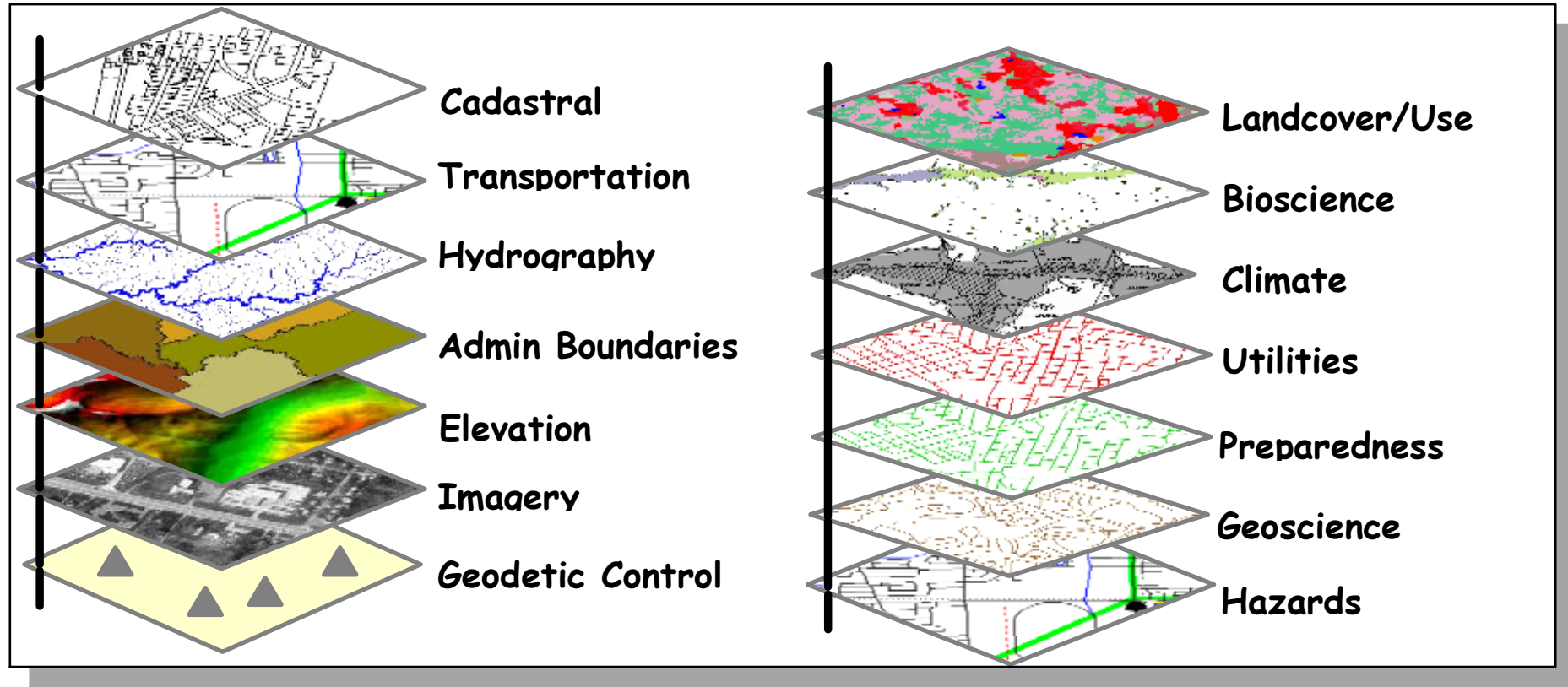
Framework Data Progress



Framework Element Standards and Availability Summary					
Data elements	Elements covered by a standard	Data available from OSDL	Data available from GEO alphalist	Data available as ArcGIS service	Data available from any DAS source
251	119	41	48	36	57
	47%	16%	19%	14%	23%

Framework Element Standards and Availability by Priority					
	Very High	High	Medium	Low	
Total number of elements	33	81	52	85	
Number of elements with a standard	15	45	18	41	
percent with a standard	45%	56%	35%	48%	
Number of elements with data available	16	27	9	7	
Percent with data available	48%	33%	17%	8%	

Oregon's Framework Themes



OSDL: Framework's Data Portal – a component of Oregon Explorer



Administrative Boundaries FIT Lead:
Chad Crockett
ODOT
Michael.c.crockett@odot.state.or.us

Summary: Administrative and governmental boundaries are the district, service, governmental, election, and census polygons that serve to organize administrative and governmental functions.

Administrative Boundaries Data Elements	standard exists data available?	Administrative Boundaries Data Elements (cont)	standard exists data available?
agricultural water quality mgmt program bnds	●	natural hazard regions	●
air quality control regions	●	neighborhood associations	●
air quality management areas	●	open burning control areas	●
American Indian Reservations	●	open burning control areas	●
area commissions on transportation	●	regulated gasoline control areas	●
cemetery maintenance districts	●	regulated gasoline control areas	●
city & county comprehensive plan designations	●	regulated gasoline control areas	●
city limits	●	regulated gasoline control areas	●
coastal zone boundaries	●	regulated gasoline control areas	●
community college districts	●	regulated gasoline control areas	●
council of governments boundaries	●	regulated gasoline control areas	●
county boundaries - OR	●	regulated gasoline control areas	●
county road districts	●	regulated gasoline control areas	●
designated scenic areas (scenic)	●	regulated gasoline control areas	●
development districts	●	regulated gasoline control areas	●
domestic water supply districts	●	regulated gasoline control areas	●
downtown districts	●	regulated gasoline control areas	●
drainage districts	●	regulated gasoline control areas	●
drinking water protection areas	●	regulated gasoline control areas	●
education service districts	●	regulated gasoline control areas	●
election districts - federal	●	regulated gasoline control areas	●
election districts - local	●	regulated gasoline control areas	●
election districts - state	●	regulated gasoline control areas	●
emergency communications districts	●	regulated gasoline control areas	●
employment regions	●	regulated gasoline control areas	●
enterprise zone boundaries	●	regulated gasoline control areas	●
federal agency administrative subdivisions	●	regulated gasoline control areas	●
federal agency administrative subdivisions	●	regulated gasoline control areas	●
federal urban transportation boundaries	●	regulated gasoline control areas	●
fire management area zones	●	regulated gasoline control areas	●
fish management districts	●	regulated gasoline control areas	●
forest protection districts	●	regulated gasoline control areas	●
general hearing districts	●	regulated gasoline control areas	●
greenways	●	regulated gasoline control areas	●
groundwater management areas	●	regulated gasoline control areas	●
health districts	●	regulated gasoline control areas	●
highway lighting districts	●	regulated gasoline control areas	●
irrigation districts	●	regulated gasoline control areas	●
library districts	●	regulated gasoline control areas	●
mass transit districts	●	regulated gasoline control areas	●
metropolitan service districts	●	regulated gasoline control areas	●
MPO buffer of Indian Reservations	●	regulated gasoline control areas	●
MPO boundaries	●	regulated gasoline control areas	●
National Monuments, parks, scenic areas, etc.	●	regulated gasoline control areas	●
National Forest boundaries	●	regulated gasoline control areas	●
port facilities (air, sea, river)	●	regulated gasoline control areas	●
public bike footprints	●	regulated gasoline control areas	●
public safety response areas	●	regulated gasoline control areas	●
public safety station locations	●	regulated gasoline control areas	●
rail facilities	●	regulated gasoline control areas	●
schools	●	regulated gasoline control areas	●
stadiums	●	regulated gasoline control areas	●
state police post boundaries	●	regulated gasoline control areas	●
wildfire-related facilities	●	regulated gasoline control areas	●

Preparedness FIT Lead: Don Pettit, R.G. Oregon Department of Environmental Quality
Pettit.don@deq.state.or.us

Summary: The Preparedness FIT is intended to collect all data necessary to support incident response and state-wide coordination of incidents.

Preparedness Data Elements	standard exists data available?
address points	●
cities	●
commercial key assets	●
correctional facilities	●
dam facilities	●
emergency facilities	●
emergency reference data stations	●
emergency service zones	●
evacuation routes	●
hazardous materials sites	●
health care facilities	●
military facilities	●
monuments/cons	●
port facilities (air, sea, river)	●
public bike footprints	●
public safety response areas	●
public safety station locations	●
rail facilities	●
schools	●
stadiums	●
state police post boundaries	●
wildfire-related facilities	●

Bioscience FIT Lead:
Jimmy Kagan
OSU Institute for Natural Resources
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Summary: Bioscience elements comprise biological datasets of statewide concern. These include plant and animal species distribution, habitat, and other data important to the understanding and management of biological species.

Bioscience Data Elements	standard exists data available?
anadromous fish abundance	●
anadromous fish habitat distributions	●
aquatic habitat	●
aquatic species & ranges	●
existing vegetation	●
fish passage barriers	●
fish stock status	●
hatchery release locations	●
historic vegetation	●
marine species habitat distributions	●
potential vegetation	●
riparian areas	●
seed zones	●
terrestrial species distribution	●
wetlands, NWI	●
wetlands, NWI	●
wildlife habitat distribution	●

LULC FIT Leads:
Jimmy Kagan (Land Cover),
Eric Brandt (Land Use)
Jimmy: OSU Institute for Natural Resources, Eric: Lane Council of Governments
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Summary: Land Cover: A categorization of vegetative or non-vegetative cover at the surface. Land Use: Characterization of human use through assignment of land use classification to local parcels.

Landuse/Land cover Data Elements	standard exists data available?
historic sites	●
land use	●
land use (land cover - general)	●
public land management / stewardship	●
recreation sites	●
zoning (nonUGB lands)	●
archaeological sites	●
cemeteries	●
ecoregions	●

Hazards FIT Lead:
Ian Madin
Oregon Department of Geology and Mineral Industries (DOGAMI)
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Summary: The Hazards FIT encompasses the collection and standardization of geospatial data describing a range of natural hazards in Oregon including: floods, landslides, earthquakes, wildfire, volcanic hazards, coastal erosion, and others.

Hazards Data Elements	standard exists data available?
brushfire zone	●
coastal erosion areas	●
debris flow hazard zone	●
drought areas	●
dust storm occurrence	●
earthquake hazard	●
flood zones	●
inundation areas	●
landslide zones	●
Letters of Map Change (LOMC)	●
burned inundation zone	●
volcano hazard	●
wildland/urban interface boundary	●
windstorm hazard	●
winter storm hazard	●

Cadastral FIT Lead:
Philip McClellan
Department of Revenue
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Summary: Cadastral, or land rights, information is arguably the most important geographic data set for local government users. Cadastral information is the graphic and attribute data describing parcels of land and the rights people hold to those parcels.

Cadastral Data Elements	standard exists data available?
assessor's map boundaries	●
Boundary Land Claims	●
CGIS	●
HSS	●
public lands ownership	●
real property table	●
state-owned lands	●
subdivision plat maps	●
tax code	●
tax lots	●
Tribal Trust Lands	●

Utilities FIT Lead:
Emmor Nile
Oregon Department of Forestry
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Summary: The utilities FIT will contain geospatial data describing water, gas, electric, and telecommunications infrastructure.

Utilities Data Elements	standard exists data available?
electric distribution facilities	●
electric generation & transmission facilities	●
gas distribution facilities	●
oil & gas supply and transmission facilities	●
recycling facilities	●
sanitary sewer treatment & collection facilities	●
septic systems	●
solid waste/transfer sites	●
storm drainage basins	●
storm sewer drainage & control facilities	●
telecommunication facilities	●
telephone exchange areas	●
utility easements	●
utility service areas	●
water distribution facilities	●
water supply & transmission facilities	●
water supply watersheds	●
wireless carrier service areas	●

Hydrography FIT Lead:
Robert Harmon, GISP
Oregon Water Resources Department
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Summary: Hydrography defines a surface water feature that may or may not be connected to other surface water features.

Hydrography Data Elements	standard exists data available?
hydrologic units (1st-6th fields)	●
water bodies	●
water body shorelines	●
water points	●
watercourses	●

Standard exists	A data standard has been adopted by OGIC	●
	A data standard has not been adopted by OGIC	●
Data available?	Data is available at OSDL or a GEO published site or service	●
	Data is not available at OSDL or a GEO published site or service	●

Climate FIT Lead:
Chris Daly
PRISM Group, Northwest Alliance for Computational Science & Engineering (OSU)
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Summary: The Climate Framework comprises a variety of elements, including precipitation, snowfall, temperature, and growing season, among others.

Climate Data Elements	standard exists data available?
cloud cover - monthly average	●
commercial datasets	●
fog occurrence in western Oregon	●
length of growing season	●
precipitation - 100 year	●
precipitation - 24-hour intensity	●
precipitation - historic daily	●
precipitation - historic monthly	●
precipitation - mean monthly & annual	●
snowfall - monthly & annual	●
soil freeze depth	●
soil temperature	●
solar radiation - monthly average	●
temperature - annual minimum	●
temperature - historic daily	●
temperature - historic monthly max & min	●
temperature - median first/last 28 deg F dates	●
temperature - monthly mean min & max	●
temperature ranges	●
wind flow - monthly	●

Transportation FIT Lead: Brett Juul
Oregon Department of Transportation
Brett.A.Juul@odot.state.or.us

Summary: The transportation FIT encompasses geospatial data describing Oregon's primary and secondary road network and associated features, facilities, and attributes as well as data related to non vehicular transportation modes.

Transportation Data Elements	standard exists data available?
address ranges	●
airports	●
bridges	●
cablecars and chairlifts	●
culverts	●
heliports	●
highways	●
mileposts	●
mileposts	●
navigation hazards	●
ports	●
railroads	●
road centerlines	●
trails	●
transportation structures	●
VOR	●

Geoscience FIT Lead:
Ian Madin
Oregon Department of Geology and Mineral Industries (DOGAMI)
ian.madin@dogami.state.or.us

Summary: The geosciences framework theme contains data elements describing subsurface geology in Oregon.

Geoscience Data Elements	standard exists data available?
geology	●
geomorphology	●
physiographic provinces	●
soils	●

Elevation FIT Lead:
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Summary: Elevation refers to a spatially referenced vertical position above or below a datum surface.

Elevation Data Elements	standard exists data available?
aspect	●
bathymetry	●
digital elevation models	●
elevation bands	●
elevation contours	●
slope	●

Geodetic Control FIT Lead: Ken Bays
Agency: Oregon Department of Transportation
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Summary: Geodetic control provides the means for determining locations of features referenced to common, nationally-used horizontal and vertical coordinate systems.

Geodetic Control Data Elements	standard exists data available?
geodetic control points	●
other survey control	●

Imagery FIT Lead:
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Agency: Oregon Department of Forestry
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Summary: An orthoimage is a georeferenced image prepared from a perspective photograph or other remotely-sensed data in which displacements of images due to sensor orientation and terrain relief have been removed.

Orthoimagery Data Elements	standard exists data available?
5-meter DOGs	●
1-meter DOGs	●
30-meter DOGs	●

Coastal & Marine FIT Lead: Tanya Haddad
Agency: DLCD - Oregon Coastal Management Program
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Summary: Oregon's newest FIT. The mission of the Coastal-Marine FIT is to foster and support a community of producers and users of Oregon coastal and marine data to proactively address emerging data needs.

Coastal & Marine Data Elements	standard exists data available?
Shoreline	●
Beach Access Points	●
Shoreline	●