

Legislative District Maps A Story of Framework Data Use

Ariel Low GPL April 2024 Maps are Part of the Legislature's Website

Originally 90 Web Maps

 Switched in 2022 to two ArcGIS Dashboards

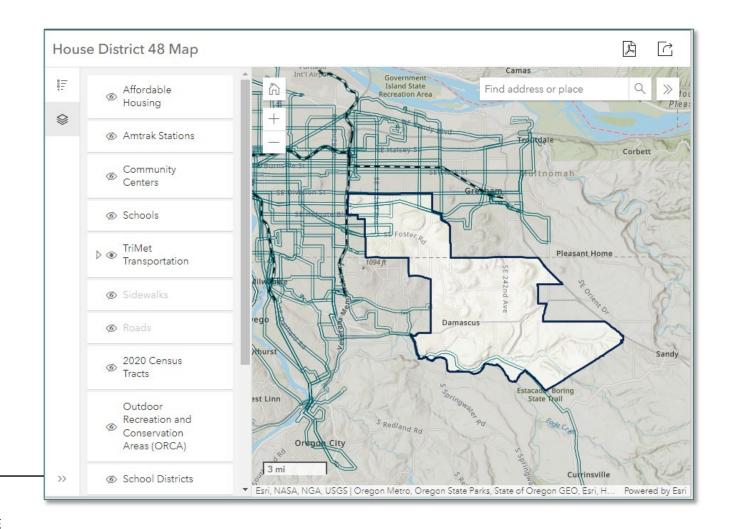
URL Parameters





The Start of a New Idea

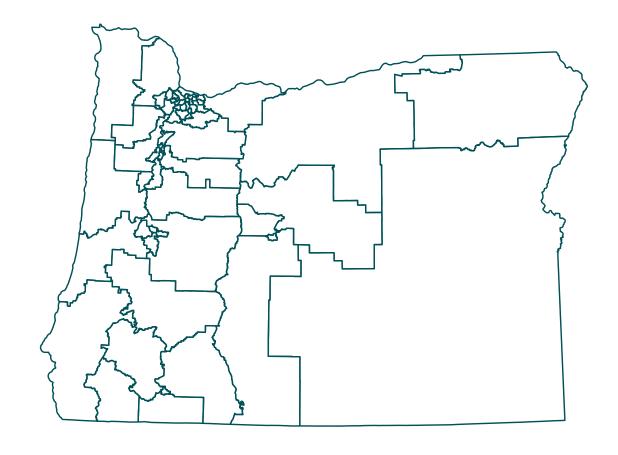
- One request for layers in district map led to many more
- ArcGIS Sidebar Instant App
- Data Sources:
 - Metro
 - State of Oregon
 - Federal Government





Could We Do This For All Districts?

- Need datasets that are:
 - Authoritative
 - Statewide
 - Regularly Updated
 - Span policy areas





Enter GeoHub

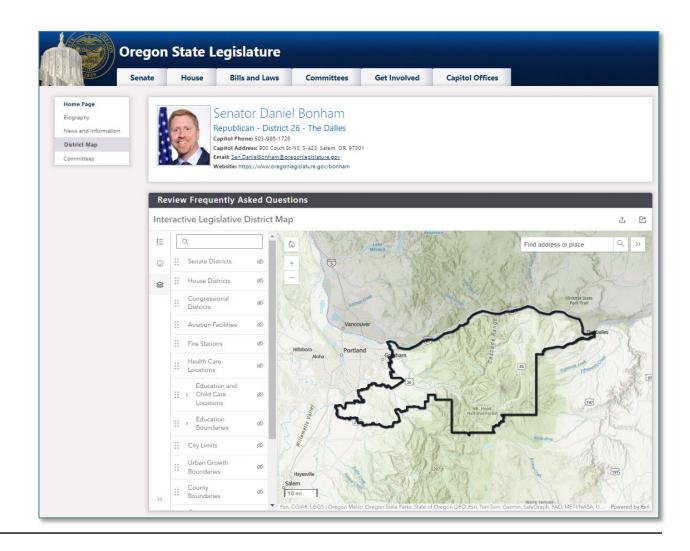
GeoHub "is built to organize authoritative data by Framework themes and provide users a searchable catalog to locate and access data."





The New District Map

- One Sidebar ArcGIS Instant App
 - URL Parameters
- Data Sources:
 - State of Oregon
 - Federal Government





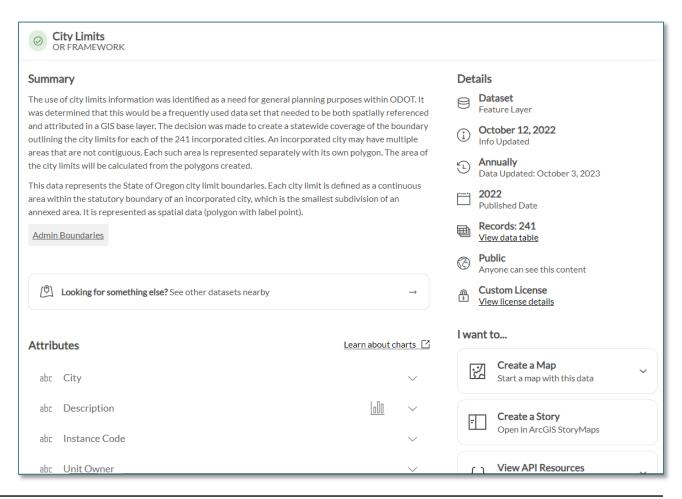
Reflections on Using GeoHub

and Areas for Improvement as a Data Steward



My Initial Questions

- Who is this data coming from?
 - Steward versus Custodian
- How is it compiled?
- When was the data last updated?
- How often is it updated?





Does the Metadata Help?

Yes...

But wow it is dense...

And not all process elements are easily understandable

Oregon Metadata Standards

State or Province: OR Postal Code: 97301-4178 Country: US

Contact Voice Telephone: 503.986.3154
Contact Facsimile Telephone: 503.986.4249

Contact Electronic Mail Address: odotmaps@odot.oregon.gov

Hours: Monday through Friday, 8:00 AM to 5:00 PM.
Contact Instructions: Call, email, or write.

Data Set Credit: Geographic Information Services Unit (GIS), Oregon Department of Transportation (ODOT)

Data Quality Information:

Attribute Value Accuracy Information:

Attribute Accuracy Report: Attributes that have derived values have not been tested to determine the accuracy. Attributes with software assigned values are assumed to be accurate. Attributes with keyed in values are filtered by database design to accept only certain formats of information. This does not preclude errors, it does, however, minimize them. Additional, in-house, review is conducted to identify errors.

Quantitative Attribute Accuracy Assessment

Attribute Accuracy Value: Digitizing Accuracy

Attribute Accuracy Explanation: One of the main considerations we have when placing new line-work is the probable inclusion of the line-work into a GIS base layer. For this reason we need to take extra measures to assure that newly placed lines are snapped to end-points, and that every intersection is broken and no overlaps or open intersections exist. Duplicate line-work is also a problem. What do we do to resolve anomalous line-work? Perhaps we find an overlap or a gap exists between existing line-work and the new parcel, or maybe a given legal description shows that one leg of a parcel adjoins a highway right-of-way for which a readily available description does not exist. One method for resolving this is to obtain a copy of the county property assessment map from the Oregon Department of Revenue (DoR). If existing records don't resolve the anomaly, an estimated resolution is employed. This method is not ideal, but experience and an informed idea of what the city intends, helps to minimize error (Educated guesswork). If an obvious overlap occurs with a new annexation and the existing city limits, we assume (guess) that the overlapped area is intended to be included in the revised boundary. It doesn't matter that it overlaps, the intent of the city is to include it. If a sliver or gap between parcels becomes apparent to us, we call the city planning dept. and ask for a clarification. Many of these anomalies occur by mistake, and aren't supposed to exist. We ask for what the city intends. We have found that these types of problems occur more often in communities that have limited resources. The number of occurances varies from year to year, but a figure of 5% is probably close to the average. For clarity, unless the boundary follows the centerline of a street or highway, an offset is employed to an estimated right of way. This offset averages 10 feet, and merely indicates that the line follows a right of way. Rights of way are seldom an even number of feet. Exceptions to the 10 foot offset placement will occur

Attribute Value Accuracy Information:

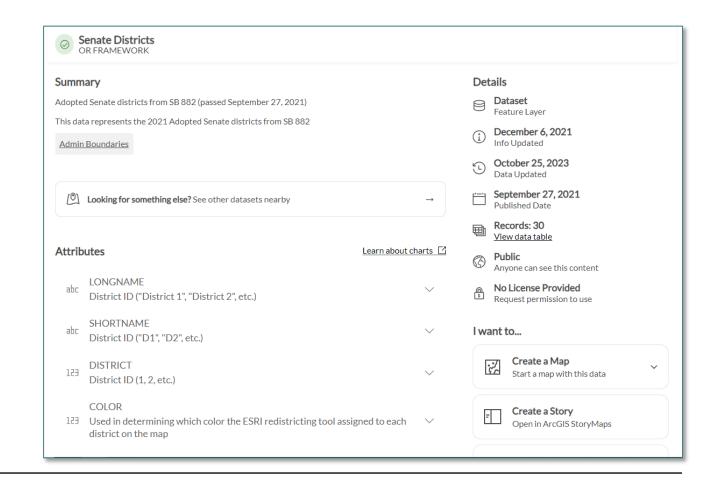
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Quantitative Attribute Accuracy Assessment



How Am I Doing?

- Short description
- Data updated date
- Missing license
- No attribute labels
- Attribute descriptions





Where Are These Dates Set?

Published Date

- Published Date (Resource- Citation- Titles & Dates)
- Creation Date (Resource- Citation- Titles & Dates)
- Date item created

Data Updated

- Revision Date (Last modified if editor tracking enabled, for datasets only)
- Revision Date (Resource- Citation- Titles & Dates)
- Revision Date (Last opened or edited in ArcGIS Online)
- Date item modified

Info Updated

- Custom date (Metadata- Metadata Date, date metadata last edited)
- Date item modified

Data Update Frequency

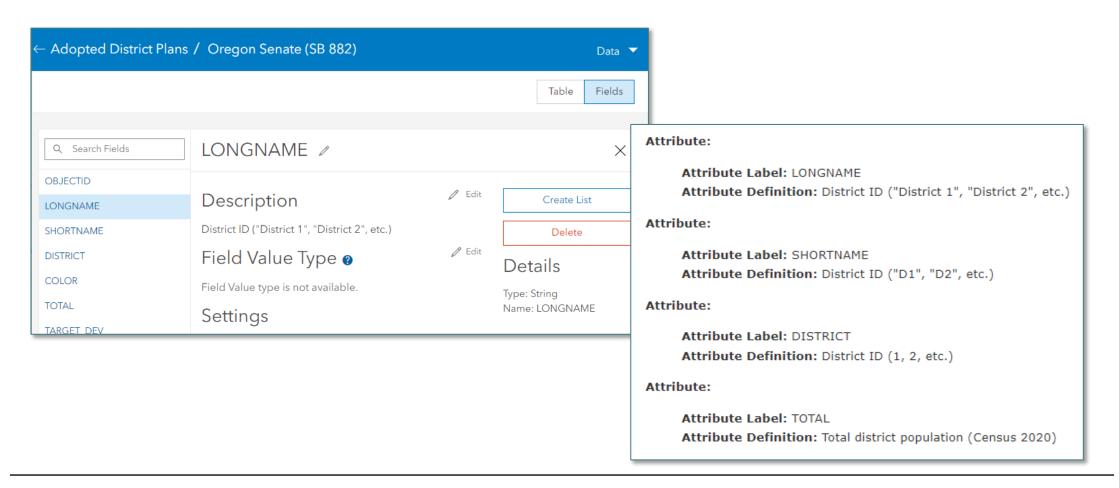
 If frequency is set and a revision date is present, frequency displays (Resource-Maintenance)

Info Update Frequency

- If both frequency (Metadata- Maintenance) and a Custom date (Metadata- Metadata Date) are set, both display.
- If frequency is set (but not Custom date), frequency displays.
- If neither are set, the date that the metadata was last modified displays.



Attribute Names and Labels and Descriptions, Oh My





Creating a Better Summary

- Most important elements of the metadata
- Accessible to any type of user
- Look at <u>examples</u>

Description

This feature service depicts the National Weather Service (NWS) watches, warnings, and advisories within the United States. Watches and warnings are classified into well over 100 categories. See event descriptions for full details.

- A warning is issued when a hazardous weather or hydrologic event is occurring, imminent or likely. A warning means weather conditions
 pose a threat to life or property. People in the path of the storm need to take protective action.
- A watch is used when the risk of a hazardous weather or hydrologic event has increased significantly, but its occurrence, location or timing
 is still uncertain. It is intended to provide enough lead time so those who need to set their plans in motion can do so. A watch means that
 hazardous weather is possible. People should have a plan of action in case a storm threatens, and they should listen for later information
 and possible warnings especially when planning travel or outdoor activities.
- An advisory is issued when a hazardous weather or hydrologic event is occurring, imminent or likely. Advisories are for less serious
 conditions than warnings, that cause significant inconvenience and if caution is not exercised, could lead to situations that may threaten
 life or property.

Source

- National Weather Service RSS-CAP Warnings and Advisories: Public Alerts
- National Weather Service Boundary Overlays: AWIPS Shapefile Database

Sample Data

• See Sample Layer Item for sample data during Weather inactivity!

Update Frequency

- The services is updated every 5 minutes using the Aggregated Live Feeds methodology.
- The overlay data is checked and updated daily from the official AWIPS Shapefile Database.

Area Covered

United States and Territories

What can you do with this layer?

- Customize the display of each attribute by using the Change Style option for any layer.
- Query the layer to display only specific types of weather watches and warnings.
- · Add to a map with other weather data layers to provide insight on hazardous weather events.
- Use ArcGIS Online analysis tools, such as Enrich Data, to determine the potential impact of weather events on populations.

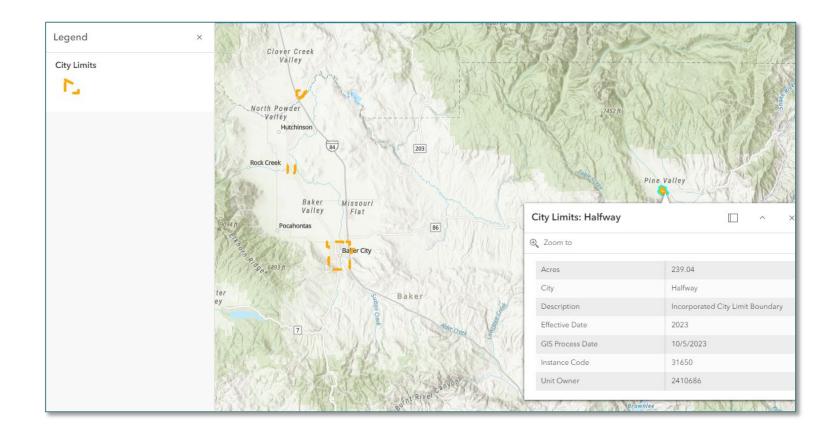
Revisions:



Making a Map

Consider feature layer:

- SymbologyPop-ups





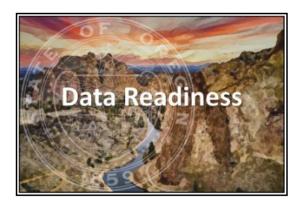
How to update?

- Keep in mind impact to users
- Notify Geo team of changes

Contributing Data

regon and are interested in contributing data to the Oregon GEOHub, we would love to he spatial datasets that are considered the "best available" and needed for government purablic Bodies* in the state. These data providers coordinate with the Geospatial Enterpris tration.

atial data to GEOHub, please read the Terms of Use and complete the Data Readiness Form



Data Readiness Form



Questions Going Forward



I Built a Map... Now What?

- Will the data automatically update?
- Will I have to swap in a new layer?
- Will things break due to updates?
- Is there a way to be notified about changes?

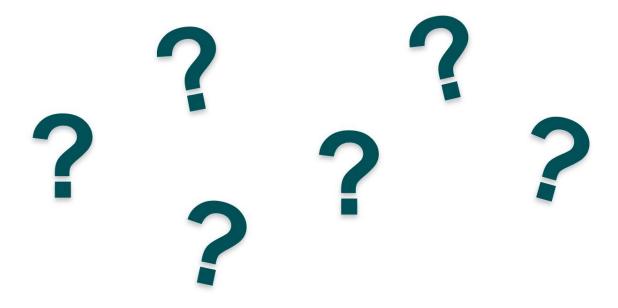


What Does User Engagement Look Like?

- How do we know who is using a dataset?
- Is there a way to enable sign-ups?
 - ArcGIS Hub
 - List-serve
- Are there public bodies that already do this well?



Questions





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