Data sources:

I am utilizing data from the Oregon Department of Transportation GIS portal and from the Oregon Geospatial Enterprise office. The citations are listed below.

Oregon Department of Transportation. “GIS Data.” *Oregon.Gov*, [www.oregon.gov/odot/data/pages/gis-data.aspx?wp4468=p:1&wp2399=p:1#g\_dbdaa8dc\_542c\_442a\_90e6\_563ca7e7b7d6](http://www.oregon.gov/odot/data/pages/gis-data.aspx?wp4468=p:1&wp2399=p:1#g_dbdaa8dc_542c_442a_90e6_563ca7e7b7d6).

Oregon Geospatial Enterprise Office. “Oregon Census Data Sets.” *Oregon.Gov*, [www.oregon.gov/geo/Pages/census.aspx](http://www.oregon.gov/geo/Pages/census.aspx).

Tileset:

<https://api.mapbox.com/styles/v1/breezy69/clpheei9l006601ope59decy4.html?title=view&access_token=pk.eyJ1IjoiYnJlZXp5NjkiLCJhIjoiY2xvaXlwMWxpMHB2cjJxcHFyeTMwNzk0NCJ9.R18DLRCA9p_SNX-6dtZZZg&zoomwheel=true&fresh=true#5.87/44.288/-120.375>

Description of process:

My final goal for my project is to create an interactive map with supporting charts using the Bootstrap library to show pavements in poor condition and bridges that are structurally deficient within the state of Oregon. This will consist of 4 layers, a bridge layer (point), pavement layer (line), county layer (polygon), and Federal Aid Boundaries (polygon). For the counties layer, I plan to create a choropleth map of the counties that will show the number of bridges and possibly the total length of pavement divided by the county population. I plan on including a hover feature (like the leaflet choropleth tutorial) and a legend.  I will also do this for the Federal Aid areas. I am struggling to spatially join the pavement features to the county features (due to file size and processing restraints) and have been trying to export them using ArcGIS Pro. I have also been attempting to handle this spatial join using JavaScript.

This project is important because it will show what counties and Federal Aid Boundaries need an increase in government funding. I have found all this data from the Oregon Department of Transportation GIS Data page and from the Oregon State Census. I exported all these shapefiles as geojson files using ArcGIS Pro.

Currently, I have loaded my bridge and pavement data as point and line features with popups and have displayed my county layer that is spatially joined to the bridges. I have integrated a layer control feature, a scale bar, and a full-screen button.  I still must configure my popups to display only certain fields. I created a custom tileset on Mapbox that I will use for the final project which I may make small changes to.