

## **Data Resources**

- **PostGIS** ([www.postgis.net](http://www.postgis.net))
- [National Geospatial Program](#)
- [Geographic Resources Analysis Support System \(GRASS\)](#)
- [OpenGeoportal](#)
- [ServirGlobal](#)
- [DIVA-GIS](#)
- [Natural Earth](#)
- [OpenStreetMap](#)
- [The National Geospatial Digital Archive](#)
- [National Historical Geographic Information System \(NHGIS\)](#)
- [Geography and American Community Survey \(US Census\)](#)
- [Center of Excellence for Geospatial Information Science \(CEGIS\)](#)

Open source platforms like [OpenStreetMap](#) allow us to zoom into a level of detail, revealing structures in the landscape, and add attributes to our analysis. There are Python packages like OSMnx that allow OpenStreetMap downloads into a Jupyter Notebook independent of a specific application or tool..

[OSMnx](#) is a Python package that lets you download spatial data from OpenStreetMap and model, project, visualize, and analyze real-world street networks. You can download and model walkable, drivable, or bikeable urban networks with a single line of Python code, and then easily analyze and visualize them. You can just as easily download and work with other infrastructure types, amenities/points of interest, building footprints, elevation data, street bearings/orientations, and speed/travel time.

[Google Earth Engine](#), a variety of open-source GIS tools and a brief introduction to ArcGIS API for Python.