

# Geospatial Infrastructure Information Unlocks Data Center Location Insights

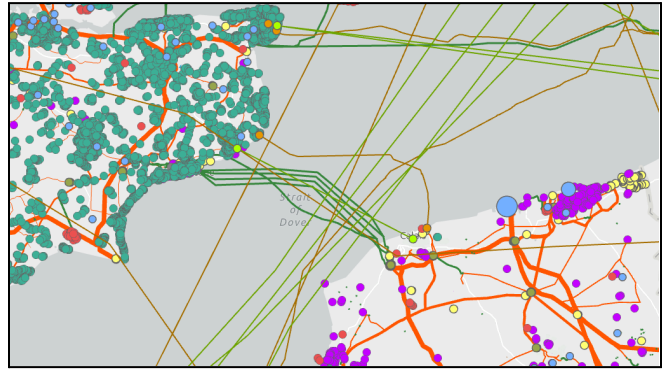
Global Data Center Operator and IT Services Provider

## About the Client

This global data center operator and IT services provider offers comprehensive data center solutions to meet unique IT infrastructure requirements, supported by decades of trusted local expertise.

## About Eichcorp

Eichcorp is a software consulting and implementation practice based in Charlottesville, Virginia that specializes in custom software implementation, GIS/mapping applications, software project/product management, and cloud solutions. Learn more at [www.eichcorp.com](http://www.eichcorp.com)



## The Challenge

The organization identified a need for infrastructure geospatial data and an Esri ArcGIS Pro project map to support their real estate business workflows. While a list of required GIS map data layers had been compiled from disparate online sources, the organization required help automating the download, transformation, and compilation of these data into Esri geodatabase format and template ArcGIS Pro project to support downstream workflows including analysis and mapping.

## The Solution



### Esri ArcPy and ArcGIS Pro

Automate data extraction and transformation to Esri geodatabase format. Create maps to support business workflows.



### Python

Implementation language for cloud hosted web services



### Overpass API

Query raw OpenStreetMap data

## The Outcome

Eichcorp implemented a re-usable geospatial data extraction and conversion process using Overpass API, Python, and Esri ArcPy. This process enabled this client to query energy infrastructure data available from both Esri and non-Esri formats, and compile geodatabase data to use in their ArcGIS Pro mapping and analysis workflows. By using ArcPy, this organization improved the speed and accuracy of their mapping and analysis workflows. Additionally Eichcorp leveraged ArcGIS Pro's powerful cartographic capabilities to deliver the organization a re-usable foundation for desktop and web GIS.

