Getting the Most Out of Your Lidar Data

Course Length: *1 day*
ArcGIS Version: *2.x*
App: *ArcGIS Pro*

Overview

Light Detection and Ranging (LiDAR) data is the new standard for digital elevation data. As the data becomes more readily available to all GIS users, it is important to understand the data structure and learn how derivative products, such as digital elevation models and building footprints, get created from the raw lidar data. This course teaches how to use ArcGIS Pro to work with LiDAR data. It also introduces the participants to a variety of government agencies sharing LiDAR data with the public.

Audience

This course is for those who are already comfortable with the basics of ArcGIS Pro and want to learn how to work with, analyze, and display LiDAR data.

Topics Covered

- Introduction to LiDAR Data– Get familiar with Lidar technology and how the data is collected. (What is LiDAR?; How is LiDAR Collected; The Output of LiDAR Collection; How is Lidar Used?)
- Exploring LiDAR Data – Learn about the LiDAR data structure. (LiDAR Data Quality Measures; Spatial Referencing of LiDAR Datasets; Understanding Point Clouds; Exploring LiDAR data in ArcGIS Pro)
- Visualizing LiDAR Data with ArcGIS Pro – Learn the details of visualizing LiDAR data in ArcGIS Pro. (What you need to work with LiDAR data in ArcGIS Pro; Displaying Data in ArcGIS Pro and Creating Visualizations)
- LiDAR Data Products – Understanding LiDAR derivatives. (Uses of DEMs; Other Lidar Products; Creating DEMs, Hillshades, DSMs, and other derivative products)

Format

In-person instruction with hands-on practice and course materials you can keep.

Prerequisites and Recommendations

Attendees should know Microsoft Windows® and be familiar with the basic use of ArcGIS Pro, including the topics covered in both the **Introduction to ArcGIS Pro** class.