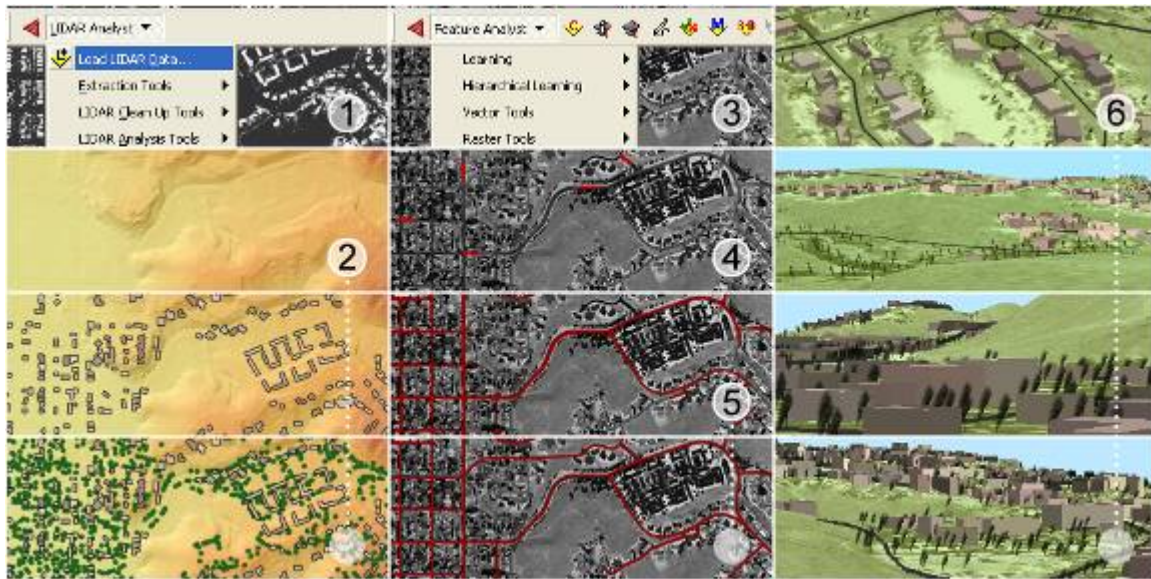


COMBINED WORKFLOW

Feature Analyst® & LIDAR Analyst™



1. Load LIDAR Data:

Use the “Load LIDAR Data” tool on the LIDAR Analyst toolbar to import the first, second, and intensity images into the project.

2. Extract Primary Features:

Use the default parameter settings in LIDAR Analyst to perform bare earth, building, and tree extractions. Bare earth extraction removes ground clutter, such as trees, building, cars, and other above ground objects to obtain the best representation of the surface layer, called the digital terrain model (DTM).

Once the bare earth is identified, buildings are easily recognized by LIDAR Analyst. Complete your LIDAR data processing by extracting the trees or forests.

3. Identify Additional Features:

With the Feature Analyst toolbar, create a new feature data set by selecting Create New Feature Class on the Vector Tools menu. This data set will contain your training set for the feature extraction.

4. Create a Training Set:

Draw a training set that clearly represents your target features and run your extraction pass. Feature Analyst is an intelligent software agent (a.k.a. Learner) that learns feature extraction concepts by example.

5. Run the Extraction Pass:

The road layer in the above example has returned some false positives: a few gaps and some missing streets. Overall, the results are good for a first pass and can be edited with the “Convert to Line” function and other Feature Analyst adjustment tools.

6. View the Model in 3D:

In order to view your three-dimensional model, use ArcScene, ArcGlobe or a similar map software that is customized for displaying 3D data.

