











LIDAR – <u>Lig</u> ht <u>D</u> etection <u>A</u> nd <u>R</u> anging	
Initial LIDAR Elevation	Filtered LIDAR Elevation (Bare Ground)
Classified LIDAR Surface (Bare Ground and Canopy)	Classified LIDAR Surface (Bare Ground )



























## **LIDAR Intensity - Applications**

- GIS systems
  - Backdrop imagery
  - Verify planimetric accuracy of existing images and GIS data
  - Updating GIS layers
- Natural resource management
  - Presence/absence of vegetation
  - Vegetation condition
  - Recent soil disturbance

## False-color imagery



## LIDAR – Light Detection And Ranging

- Specialized Software (edit, surface, terrain analysis, visualization)
  - MARS (Merrick & Company)
  - QT Modeler (Applied Imagery)
  - TerraScan (Terrasolid)
  - LIDAR Analyst (Visual Learning Systems)
    - Feature and change extraction (raster) - No editing or surface interpolation

