



Virginia Information Technologies Agency



LIDAR in the Commonwealth

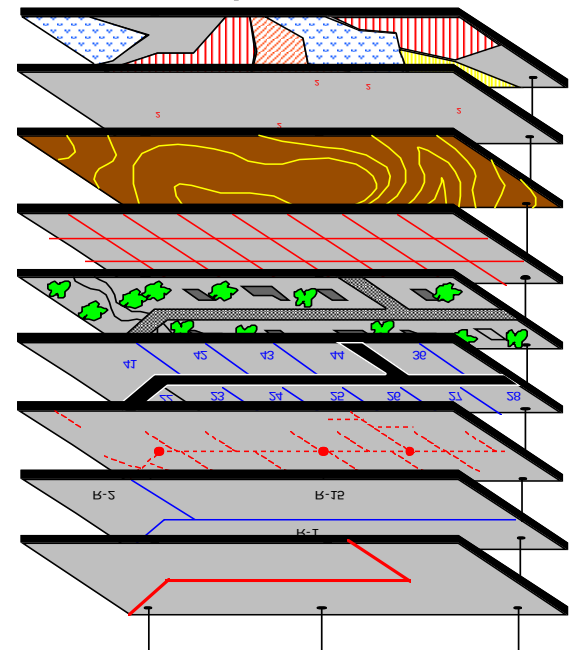
Steve Marzolf, ISP Director

November 24, 2014



GIS Software

Geospatial Data

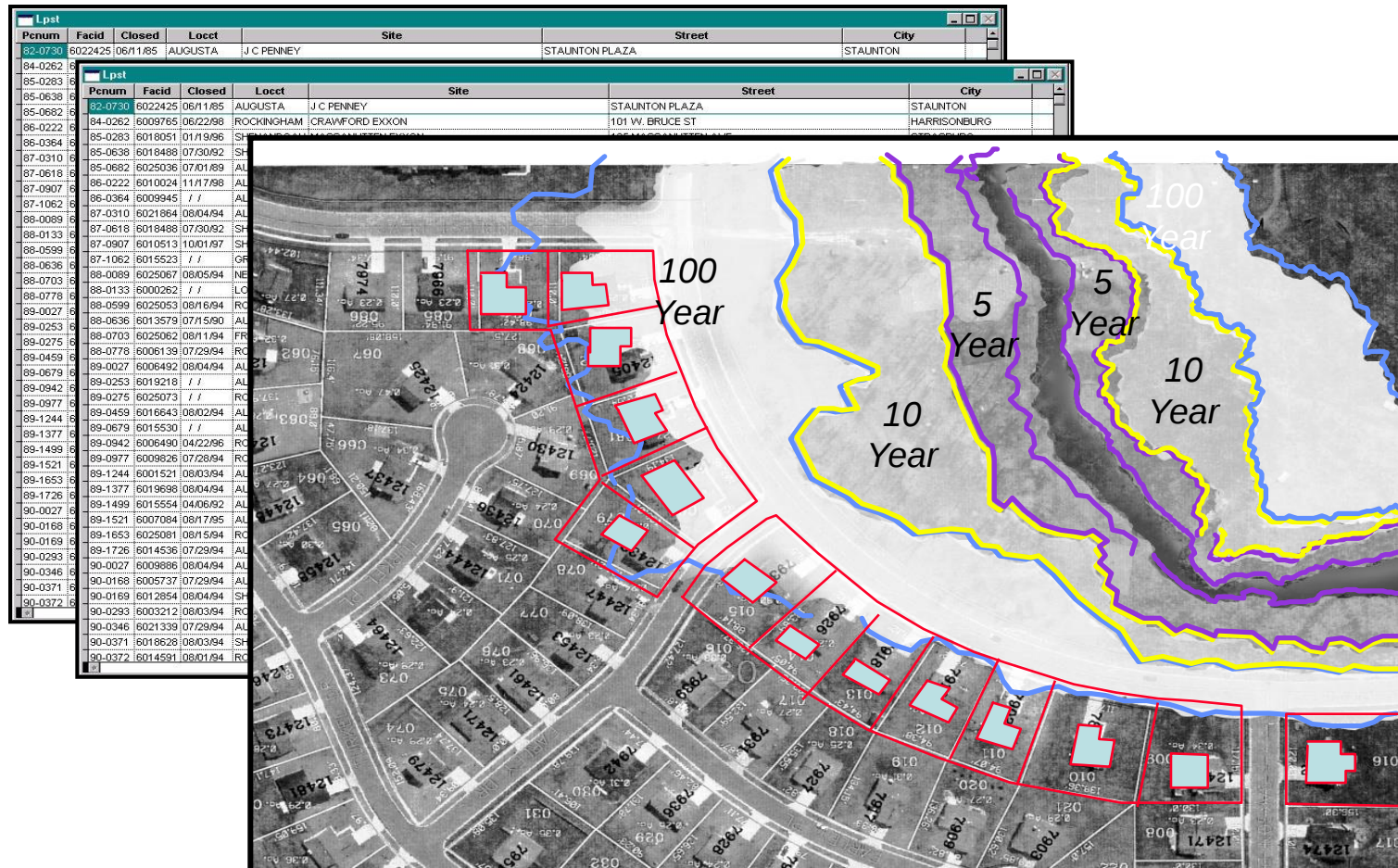


points

lines

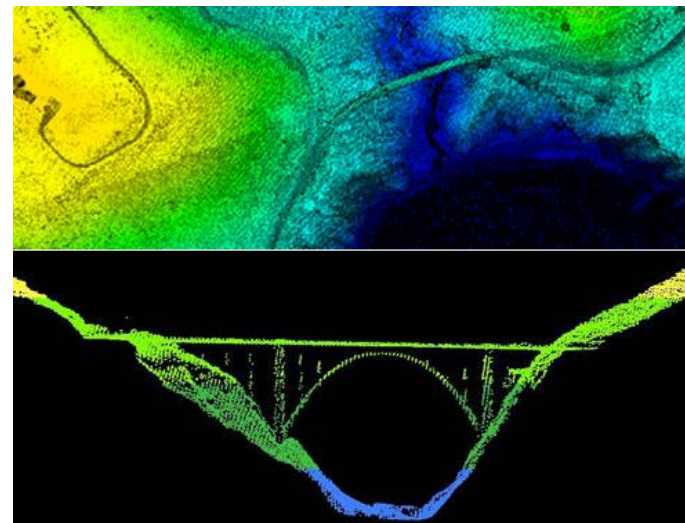
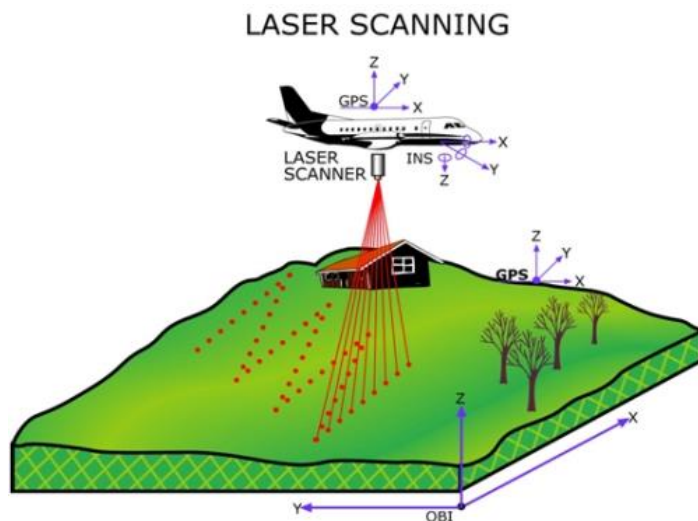
polygons

GIS Example



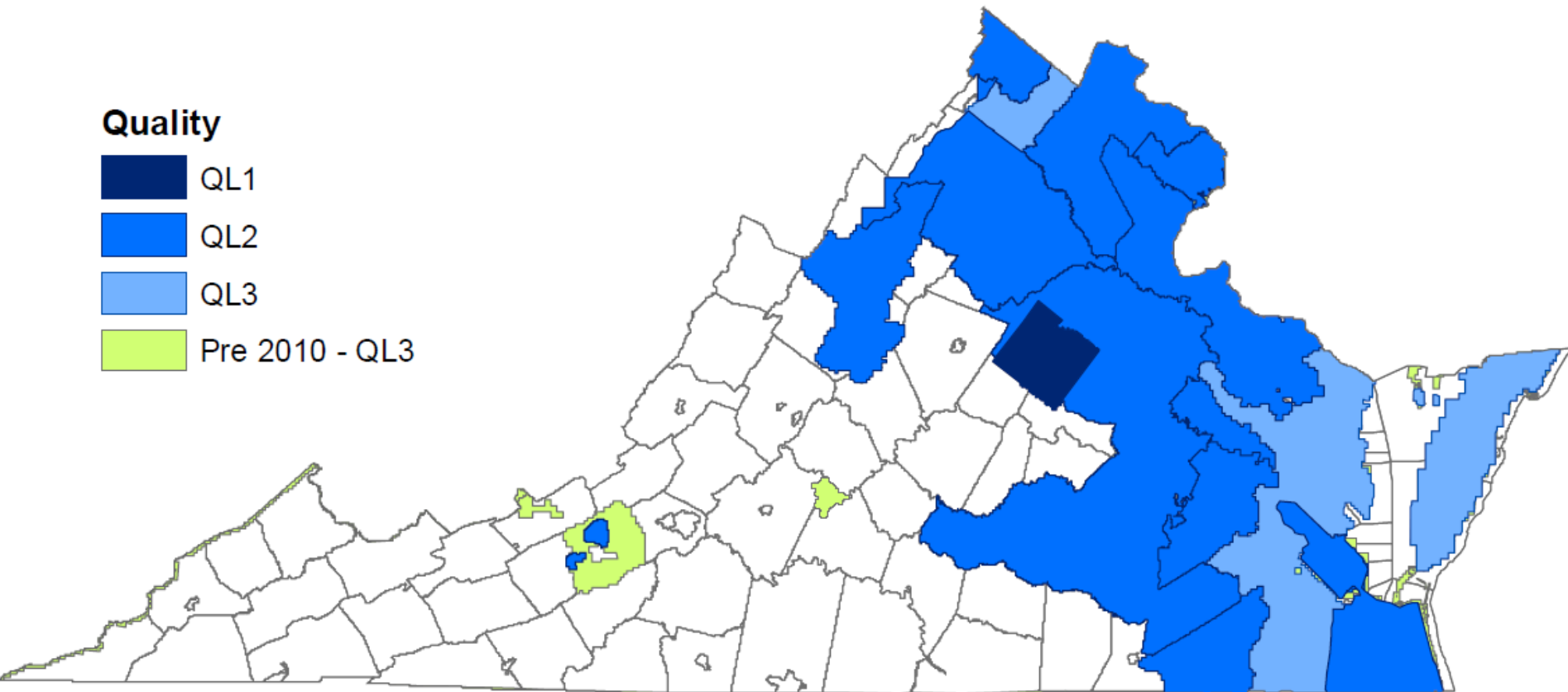
What is LIDAR?

- Light Detection and Ranging
- Method to examine surface of the Earth
- Laser pulses from airplane return data
- Provides three dimensional picture



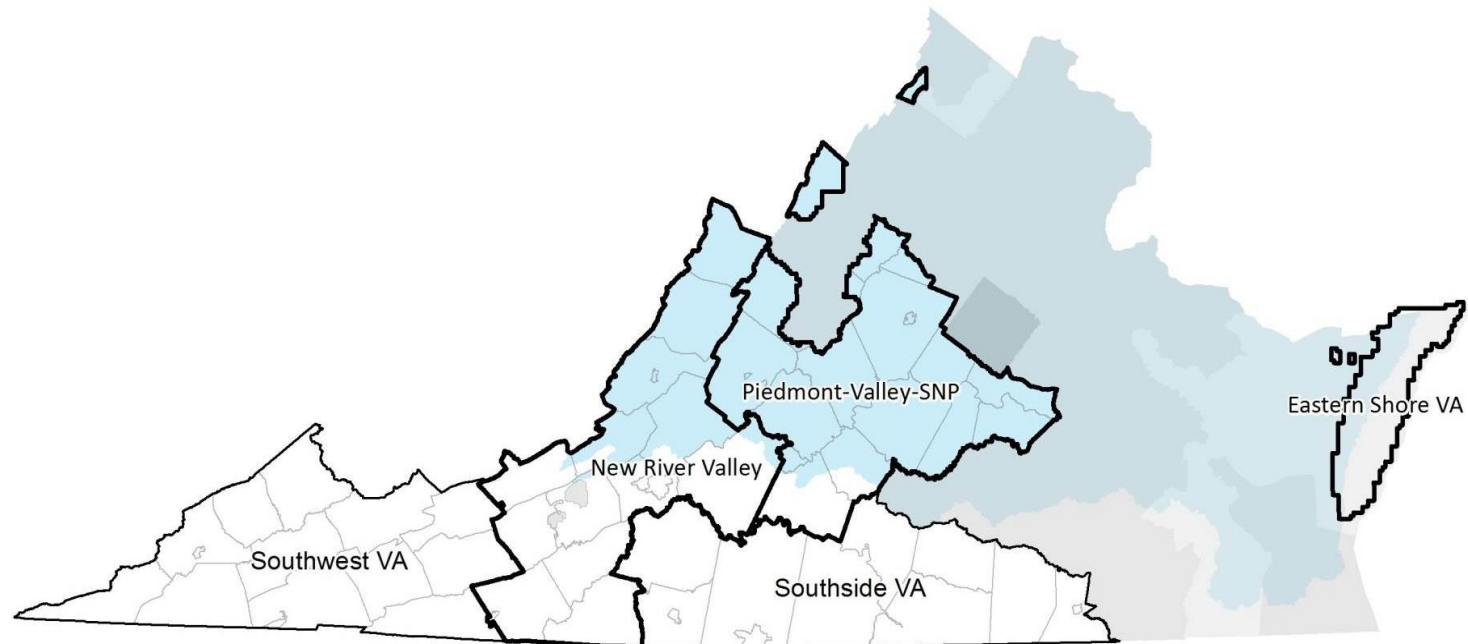


LIDAR Inventory – May 2014





Proposed LIDAR Projects



LIDAR Status

	QL1
	QL2
	QL3
	No Lidar
	Chesapeake Bay Watershed

Virginia Project Areas

1. Piedmont-Valley-SNP	5,714 sq miles
2. New River Valley	5,808 sq miles
3. Eastern Shore VA	1,193 sq miles
4. Southwest VA	5,524 sq miles
5. Southside VA	5,422 sq miles



Estimated costs

Project	Cost
1. Piedmont Shenandoah Valley	\$1.9 million
2. New River Valley VA	\$1.9 million
3. Eastern Shore VA	\$600 thousand
4. Southwest VA	\$1.9 million
5. Southside VA	\$1.8 million
total	\$8.0 million