

Land Cover Dataset Workshop

December 15, 2017



VGIN 1-m resolution Land Cover Data

differences from previous land cover datasets?
(NLCD)

- **Accuracy**

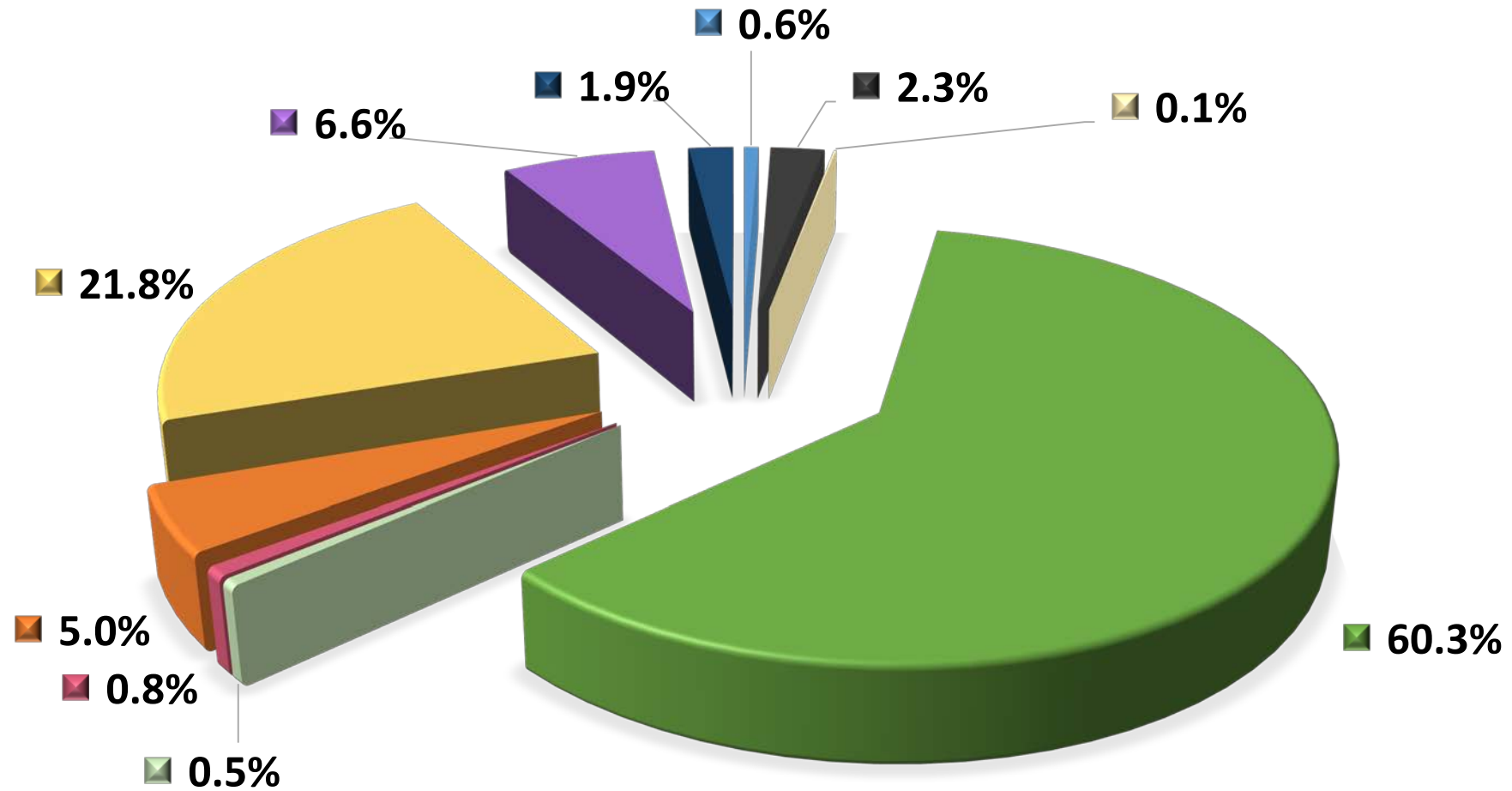
- 900 times more information than previous NLCD in Bay model (1 meter vs. 30 meter pixel)
- Baseline spatial and classification accuracy of data targeted at 85%
- For many land classification categories a level of 95% accuracy achieved
- Statewide accuracy of certain classes in NLCD has been found by independent studies to be less than 10% such as in case of shrubland in Kansas

-VGIN Applications of the Virginia Statewide Land Cover Database- Scheibe & Ellsworth

- **Cohesiveness**

- Standardized product is preferable to conglomeration
- Redundancy of data reduced due to lack of data collection coordination
- Temporal inconsistency reduced
- Varying quality- quality still varies but less so than in the NLCD

RAPPAHANNOCK-RAPIDAN REGION'S LAND COVER



Open Water

Impervious

Barren

Forest/Tree

Scrub/Shrub

Harvested/Disturbed

TurfGrass

Pasture

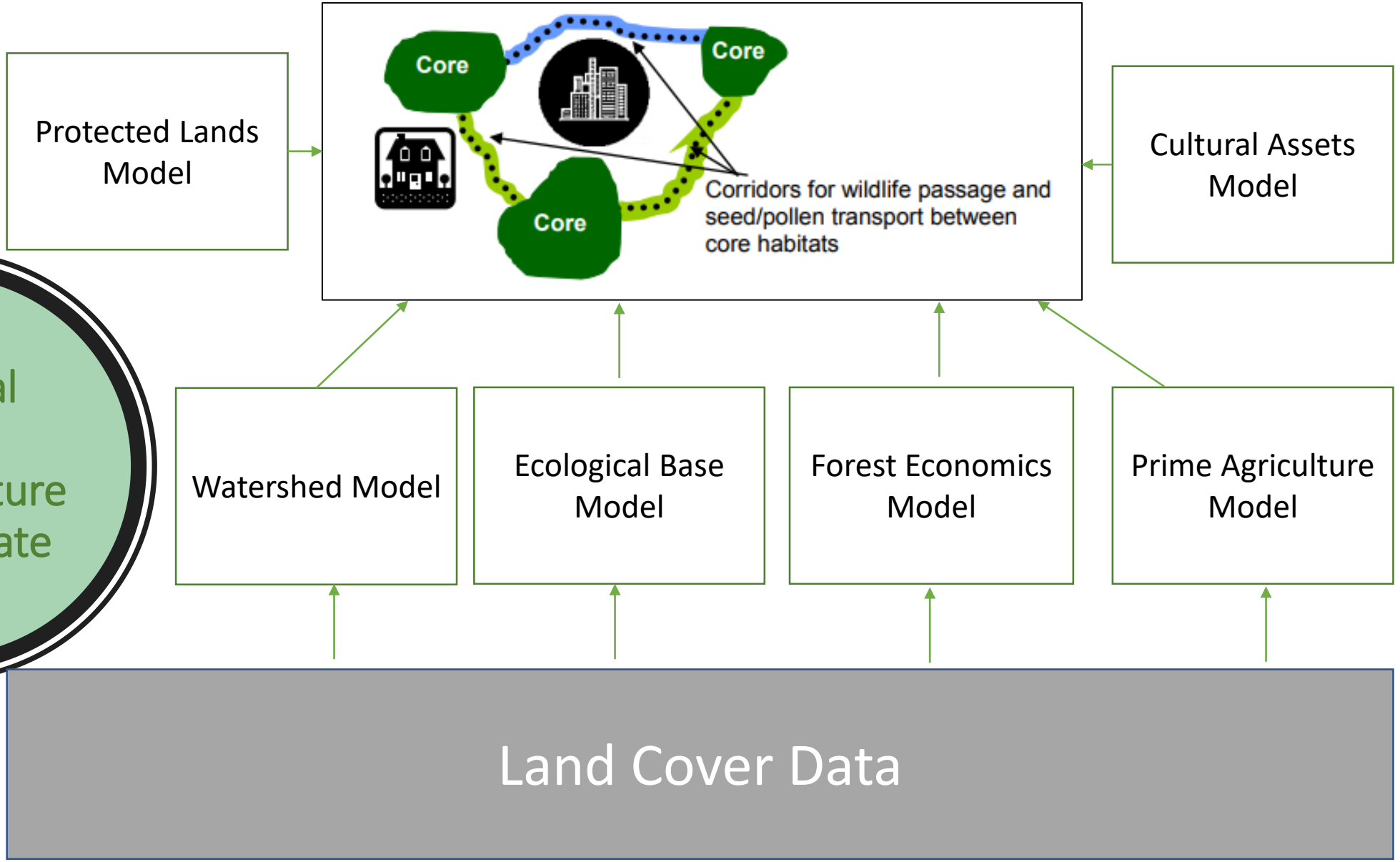
Cropland

Wetlands

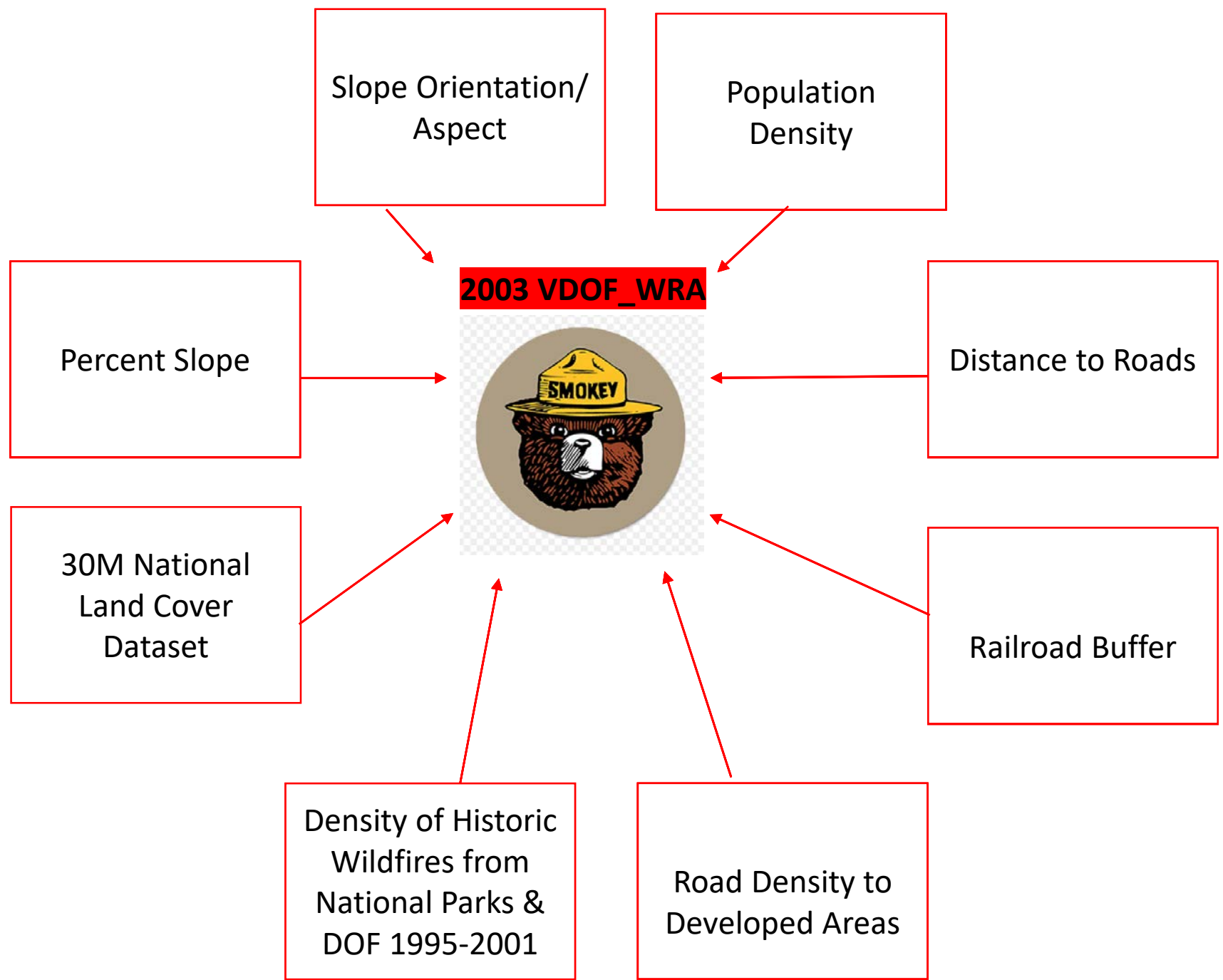
Possible Regional Uses for the Land Cover Dataset

- **Regional Green Infrastructure Plan Update**
- **Regional Wildfire Risk Assessment**
- **Regional Identification & Prioritization of RBZs**
- **Regional Solar Energy Propensity Study**

Regional Green Infrastructure Plan Update



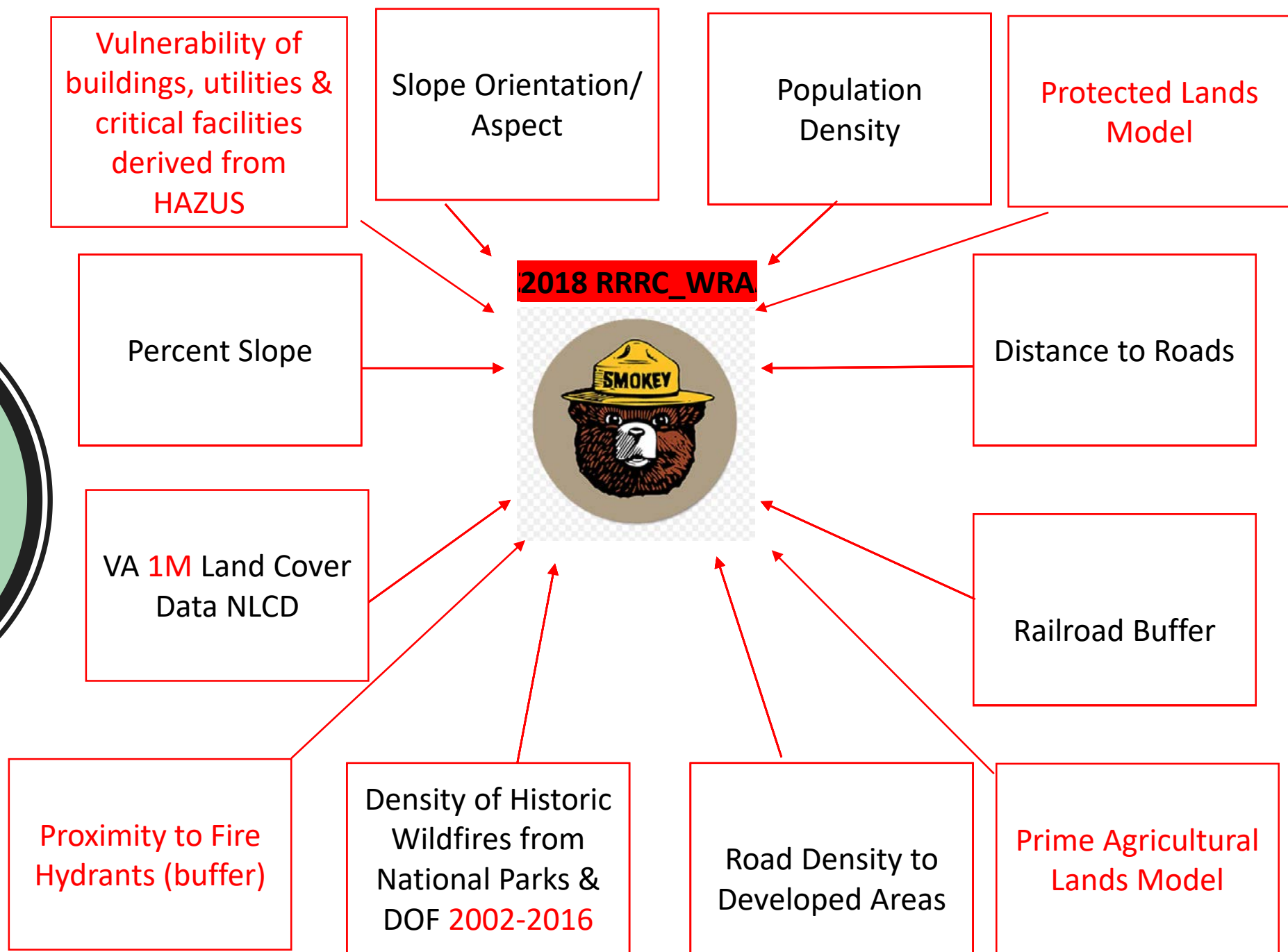
Regional Wildfire Risk Assessment






County	# of Incidents in High Risk Area (2002-2016)	# of Incidents in Moderate Risk Area (2002-2016)	# of Incidents in Low Risk Area (2002-2016)
Culpeper	28	60	23
Fauquier	27	87	31
Madison	90	51	6
Orange	32	97	14
Rappahannock	30	39	1

Regional Wildfire Risk Assessment



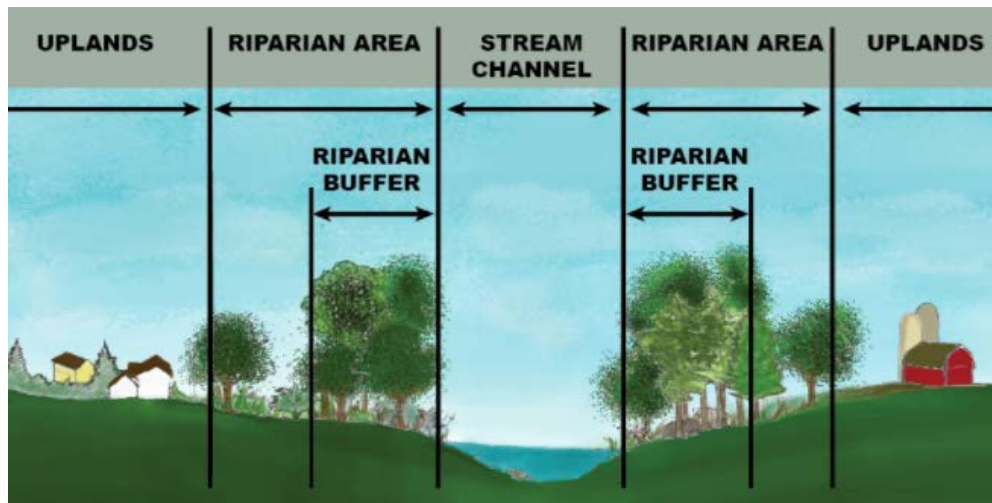
Regional Identification & Prioritization of RBZs



Drainage Area

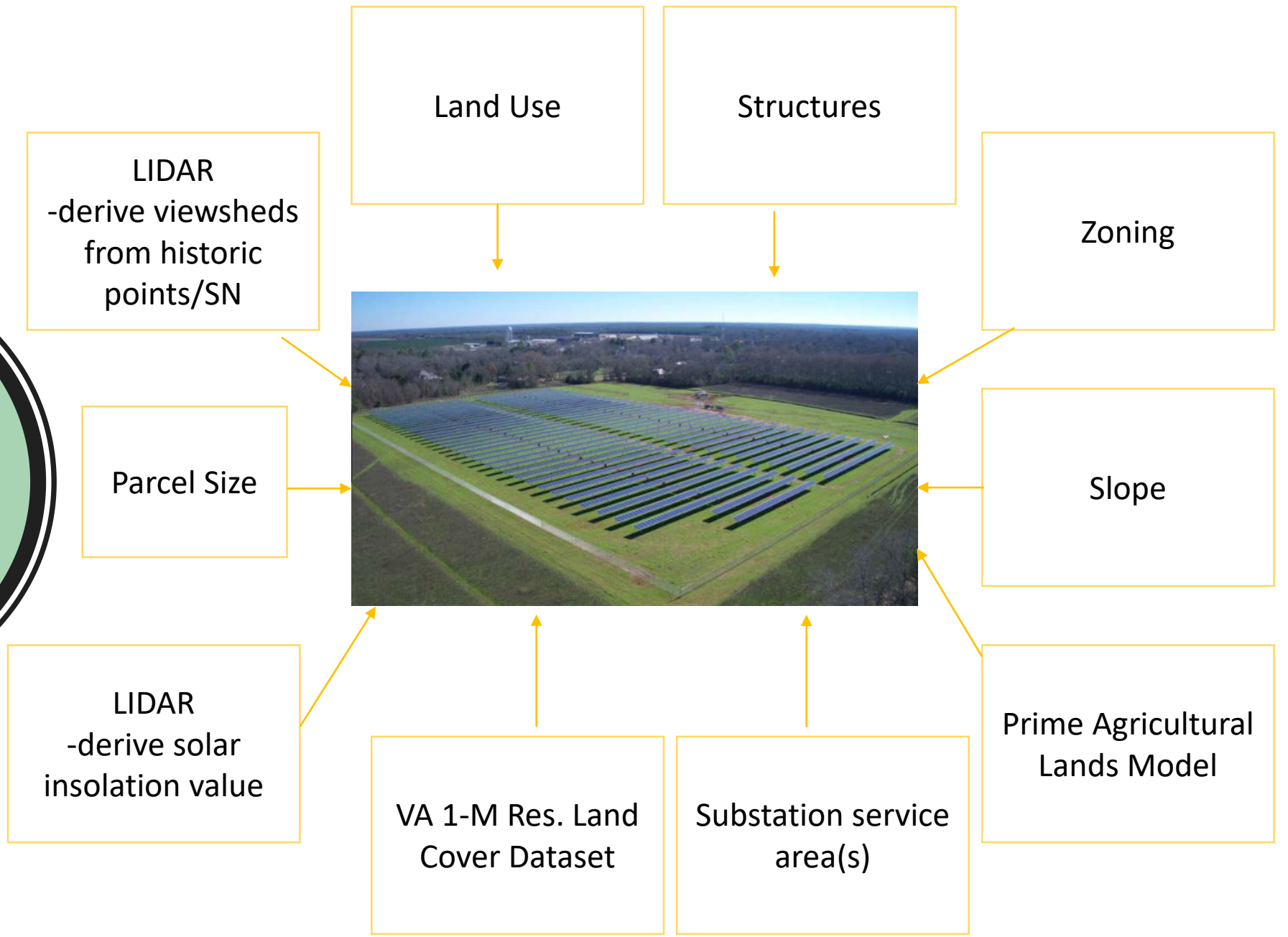

VA 1-M Res. Land Cover Dataset

DEM




Soil Capability

**Regional
Solar Energy
Propensity
Study**



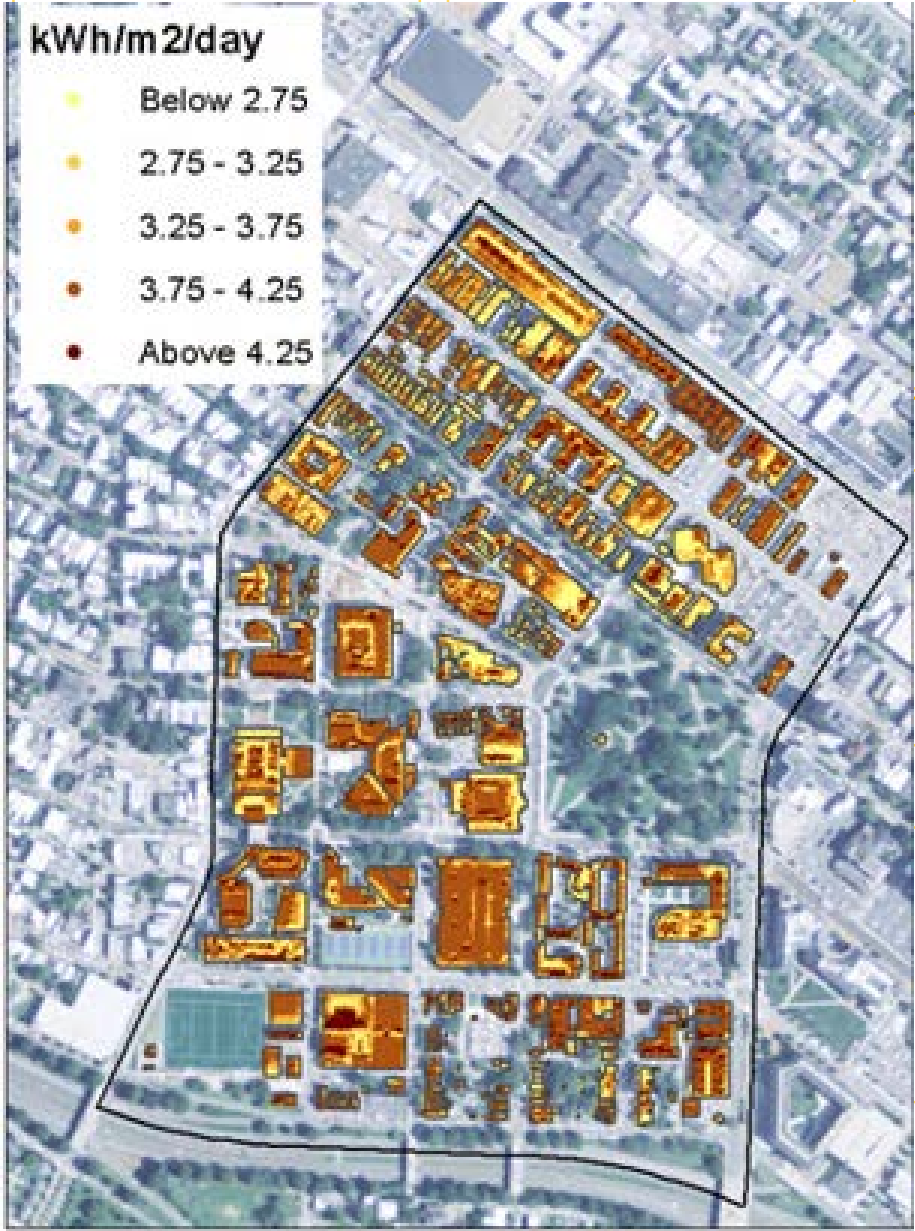
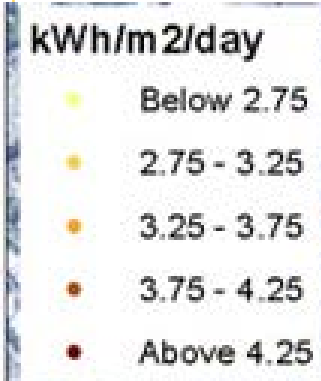
Regional Solar Energy Propensity Study



LIDAR
-derive viewsheds
from historic
points/SN

Parcel Size

LIDAR
-derive solar
insolation value



Zoning

Slope

Prime Agricultural
Lands Model