Canopy structure / habitat metrics

- **Cover Type**
  - Life form – 30m (can get from optical VNIR sensors)
  - Vegetation type – 30m (can get from VNIR or hyperspectral)
- **Canopy Cover**
  - from optical & waveform lidar
- **Biomass**
  - Surrogate for age-size important to wildlife habitat models
  - Volumetric structure avoids height-density issue
  - +/- 15% at 30m (more precise models)
- **Canopy Height**
  - Habitat heterogeneity (correlated with avian SR)
- **Vertical Distribution of Canopy Elements**
  - Overstory-understory presence and life-form (30m desired)
  - Vertical complexity (VDR) related to occupancy & richness
  - Mid-story vs. overstory cover matters for some species
- **Temporal Variation**
  - Temporal change in properties must be monitored