

REMOTE SENSING



Vertex's remote sensing team applies industry leading approaches to acquire, manage, and analyze data to deliver products and strategic insights for the purposes of planning, monitoring, and the completion of mapping projects.

By utilizing machine learning and artificial intelligence to process big data collected by various spaceborne and airborne sensors, we can assess, analyze, and compare data related to the changes of forestry, vegetation, wetland, and land use.

At Vertex, it is our team's goal to assist clients by optimizing their use of spatial imagery and data to deliver products for seamless integration into existing planning, monitoring, and operational systems.

Services

- Land Cover / Use Classification, Assessment & Monitoring
- Vegetation Type Characterization
- Vegetation Health Monitoring
- Vegetation Biomass
- Time-series Change Analysis
- Multispectral & Hyperspectral Optical Analysis
- Wildfire Burned Area & Burned Severity Mapping
- Pipeline Corridor Status
- Microwave (RADAR) Analysis
- UAV Data Analysis
- Elevation, Slope, Aspect & Terrain Roughness Mapping
- Multi-sensor Data Integration
- Cumulative Environmental Effects Characterization
- Environmental Impact Assessment Mapping
- Wetland Assessment & Monitoring
- Seamless Integration with GIS