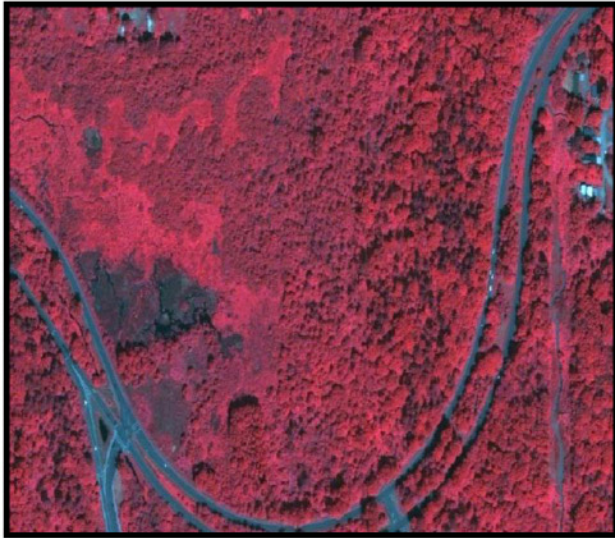


Forest Mapping



Highlights:

Forest plant species Mapping from High Resolution orthophotos

Business Need:

The client intended to create more accurate boundary for different plant species within given area of interest. The back ground is to assess the changes in the area of different plant species during certain period. This will be most critical element in environmental assessment and determines the efforts required in planning & managing the existing forest resources.

Area Covered:

This project covers an area of 1250 SQKM covered with high dense to low dense forest.

Inputs Used:

Ortho photo:

High Resolution Orthophotography to use the base for classification

Vector Data:

Boundary shape file describing the boundaries of different plant species during the last mapping efforts.

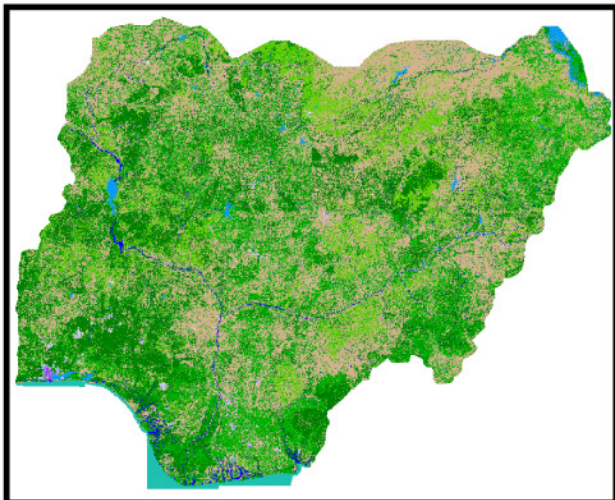
Business Solution:

The objective of the project is to find out the changes in the area of different plant species during the last mapping effort.

The existing shape file containing the shape, area, type of plant species and ownership details was supplied by the client.

With reference from latest orthophoto the boundaries are remapped to reflect the current scenario of the ground. Care will be taken to represent the boundary as accurate as possible.

Finally the statistics are developed by running a change detection methodology between the current and previous shape files. The statistics provided includes the changes in the area of each polygon, the percentage of change and if any comments like observed any new plant species etc.



Project Shipment:

The shipment were made in 2 formats to client to get more idea about the changes occurred:

- i. New Shape file containing the boundaries of current plant species captured from latest Imagery.
- ii. Statistics about the changes in the area, when compared to the previous mapping efforts
- iii. Detailed documents describing the over all process used during the execution of the project.
- iv. Document describing the specific observations come across during the mapping and statistics generation phase.

Software Used:

- i) Erdas Imagine 9.2
- ii) ESRI ARCGIS

