

# Digital Forest Inventory Mapping, Newfoundland and Labrador, Canada

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**CASE STUDY**

## Abstract

The work was awarded to SBL by a leading geospatial organization in Canada providing specialized services in forestry. The study area covers parts of Newfoundland and Labrador (13920 sq.km) (District 16 North and District 17 and District 18 South) in two different vintage of 2010 and 2011. The proposed work involved the digital capture of forest parcel boundaries and their Attributisation.

## Challenges

- Client was in need of a quick turnaround time
- Automated attributisation
- Very competitive budget

## Approach

- Ortho photo creation
- Features were captured in auto CAD environment and converted back to ESRI shape for efficient completion of the work.
- Attributes (16nos) were incorporated for all polygons using in-house developed automated scripts for maintaining accuracy.
- Digitisation of forest parcel boundaries, forest land use land cover boundaries, hydrographic feature capturing, base mapping (transportation and location features),
- Interpretation of forest parcel boundaries with the help of certified Canadian foresters.



## Benefits

- SBL's quick turnaround time and clear understanding of the work resulted in the client receiving highly accurate forest parcel boundaries, forest land use land cover categories and a base mapping layer,
- The client also benefited from an accurate breakdown of forest species
- segregation thereby allowing estimation of the bio diversity and bio mass of any otherwise difficult terrain.
- Finally, the client was able to complete their work within a cost effective budget and within the shortest possible schedule.

## Customer

A leading geospatial organization providing specialized services in forestry.

Geography : Canada

Industry : Forestry





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