



PRODUCTS AND SERVICES

AERIAL SURVEYS SMART FORESTS

Aerial Surveys offers a variety of forest management tools and solutions to add value to forest owners and managers throughout the lifecycle of a forest

Forest Mapping and Inventory Solutions:

Our range of technologies are designed to meet recognised needs in the industry and to increase the level of certainty in forest inventory management.

Core Forest Mapping Services:

- ▶ *Aerial photography and LiDAR services*
- ▶ *Photogrammetric mapping and ortho photography*
- ▶ *LiDAR data processing and classification*
- ▶ *Contract management monitoring*
- ▶ *Accurate boundary demarcation*
- ▶ *Change mapping/time series mapping*
- ▶ *Net stocked area mapping*
- ▶ *Forest block age classification*
- ▶ *Inventory rotation mapping*
- ▶ *Digital terrain models for harvest planning*
- ▶ *Canopy structure and modelling for tree height and vegetation analysis*
- ▶ *Topographical mapping and contours*
- ▶ *Feature mapping (tracks, clearings, streams etc.)*

Specialised Forest Mapping Solutions:

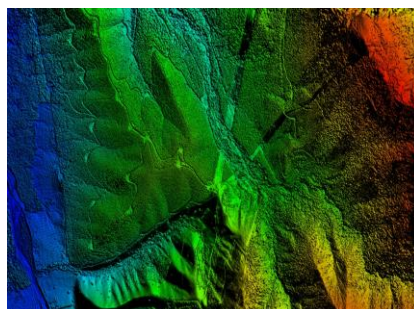
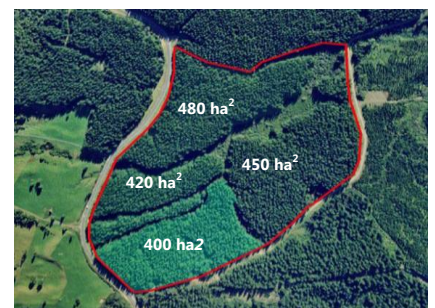
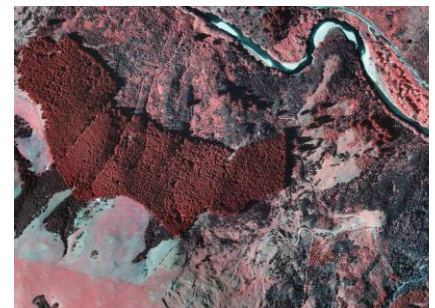
Aerial Surveys provides a number of specialised forestry focused solutions utilising remote sensing, aerial photography, airborne

laser scanning (LiDAR) surveys and patented software technologies.

These solutions deliver extended value adding benefits to forest owners and managers.

Our specialist services create this value in the following areas:

- ▶ *Inventory management and forest block valuation support services to provide greater certainty of inventory:*
 - *Accurate tree counting*
 - *Stem profiling*
 - *Forest height measurement*
- ▶ *Forest health, species identification, biosecurity and environmental impact monitoring*
- ▶ *Compliance and reporting (pre- and post-harvest surveys)*



Quality Products ~ Timely Delivery ~ Latest Technology ~ Integrated Workflows ~ Open Communication ~ Project Management



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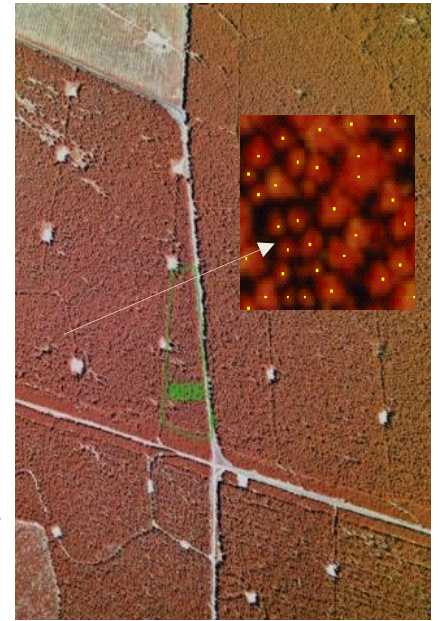
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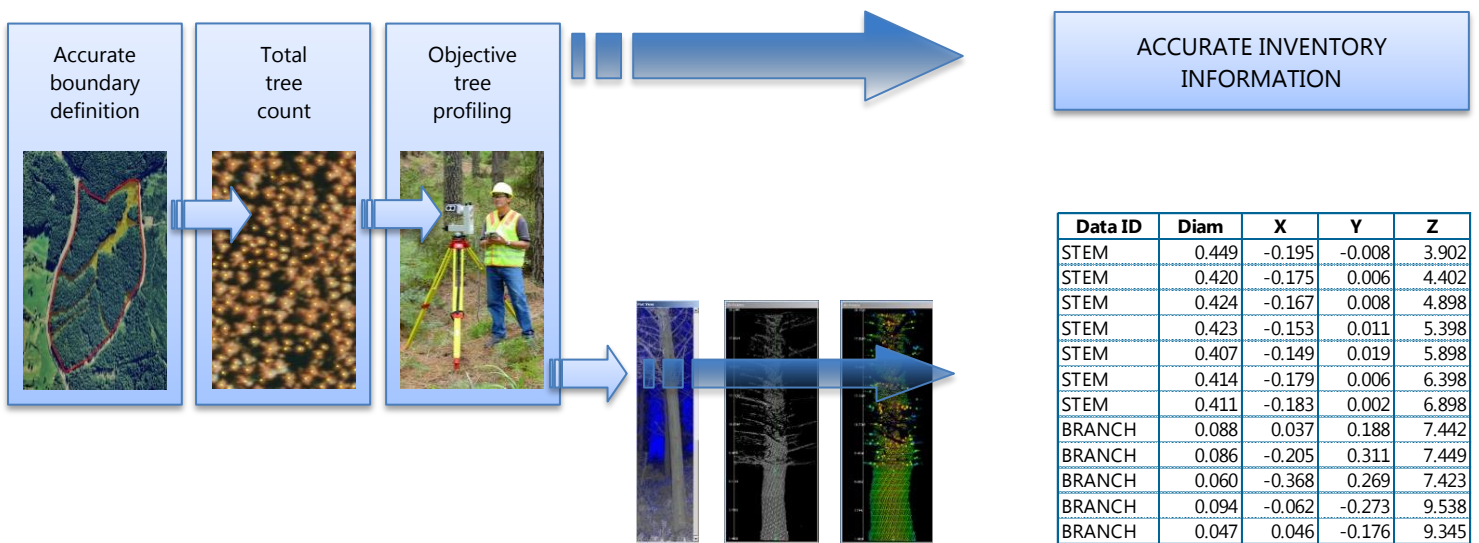
LiDAR and photogrammetry technologies and other geospatial tools are utilised depending on the growth stage and the deliverables required

Core and Specialist Technologies:

- ▶ Aerial photography and photogrammetric mapping services for image ortho rectification, accurate boundary mapping and computation of net stocked areas
- ▶ Aerial photography using colour infrared film for accurate tree counting through recognition of tree crowns, forest health and species mapping
- ▶ Tree stem 3D laser scanning and profiling using Aerial Surveys patented Tree Attribute Profiler for tree stem quality assessment
- ▶ Airborne thermal imagery surveys
- ▶ Satellite imagery (GeoEye-1, WorldView 2, Pleiades1A/1B, RapidEye and Quickbird)
- ▶ Airborne hyperspectral surveys for biosecurity, accurate species identification, forest health, environmental impact analysis and disease monitoring (using a CASI II sensor)
- ▶ Airborne laser scanning (LiDAR) surveys for forest height measurement and predictive ground contouring



The Inventory Management Solution



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