

## LiDAR Point Cloud Data Processing & CAD Outputs



**Goodland Geospatial**

# *GIS, Engineering Surveying & Mapping, Asset Mapping, Monitoring, Stock Volume Calculation, Construction, Planning & Design, Inspection, Maintenance, and Infrastructure Development Projects*

## **Applications**

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16 Years of Experience in Surveying & Mapping of Roads, Railway, Smart City, SEZ & Industrial Land, Airports, Ports, Irrigation Projects, Pipeline and Cable Routes with latest technology. We are specialized in LiDAR Data processing from 2016

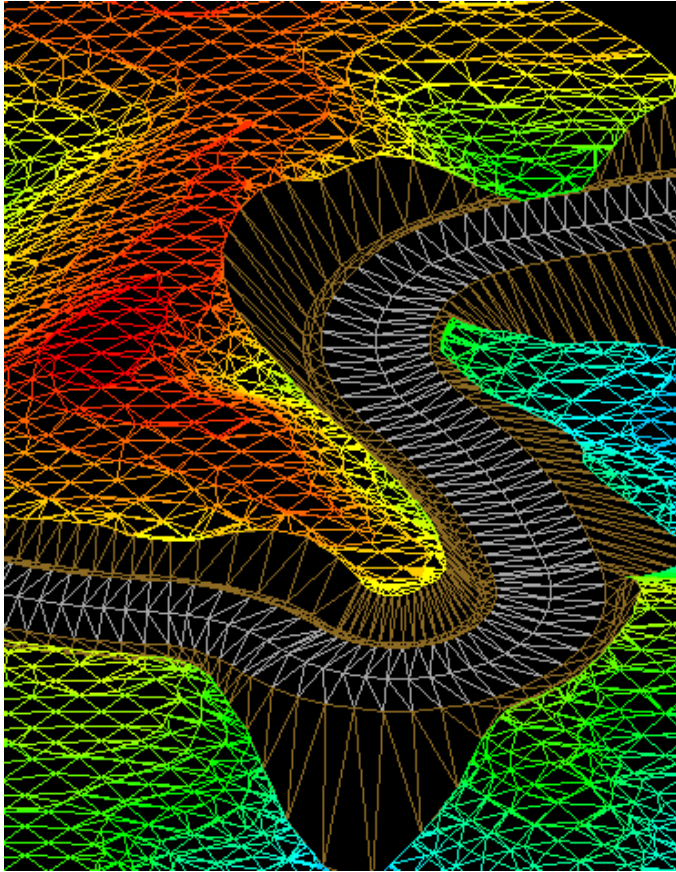
### Area of Application

- Railway Line, Roads, Highways, Flyovers, Junction Development, and Green Field Alignments,
- City Development, Sewage and Water supply and Smart City
- Pipelines, Cables, Conveyors, Ports, Airports, and Public Transport Projects
- Rivers, Waterways, Irrigation, Dams, Bridges and Flood Management
- Mining, Tunnels, Solar Power Plants, and Industrial Land
- Historical Monuments, Tourism, GIS,



*LiDAR Processing starts with pre-processing which involves preparing Trajectory (putting together of Base GPS, Rover GPS and IMU) Extracting Images, Extracting LiDAR Data, Geo-referencing with GCP, Accuracy Check, Colorizing, and export to familiar file formats*

## Services & Technology

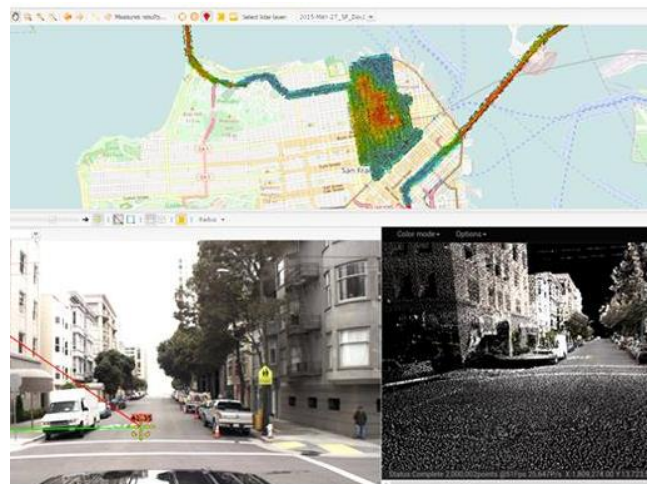


The 3D dataset is composed of a calibrated and georeferenced combination of points and images from your entire project. All the data is output in a LAS format (a public file format for the interchange of 3D point cloud data).

LiDAR data collection (whether it's terrestrial, mobile, or high altitude aerial) needs to be moved into a format that can be used by engineering and mapping software, for example, Autodesk Civil 3D 'dwg' or Microstation 'dgn' or GIS based shape files

Our job is to complete batch as-built geometry and feature extraction..

Once we have processed the LiDAR data we can produce number of deliverables including Ortho-photo, Spherical Photo, Digital Elevation Model (DEM), Digital Terrain Model (DTM), Digital Surface Model (DSM), Contours, Sections, CAD Files, GIS Files,

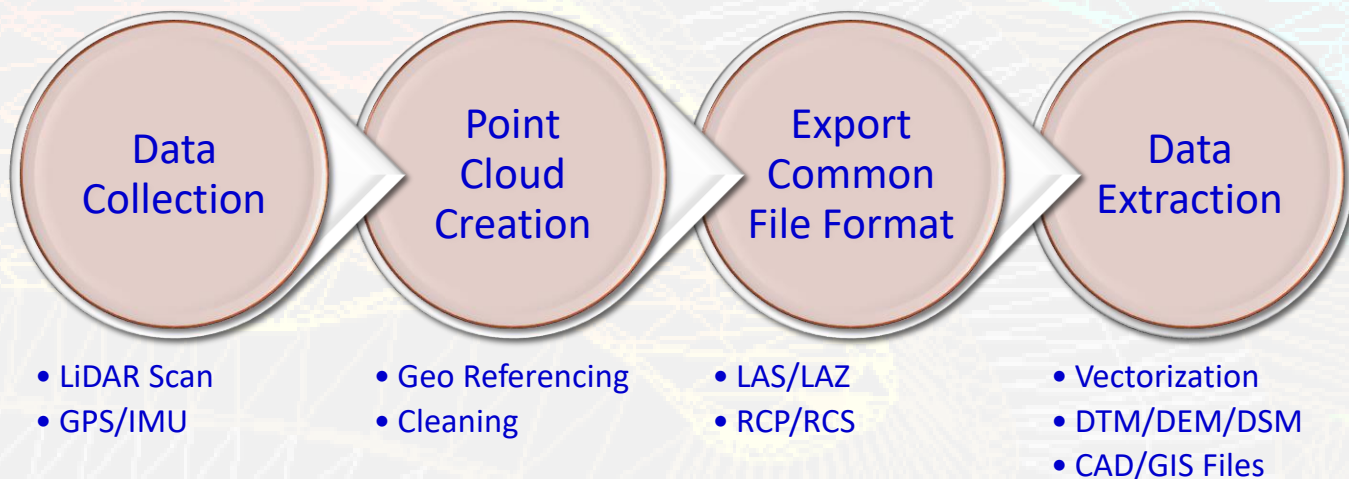


*Qualified and experienced engineers, Data processing software like Leica MapFactory (AutoCAD & ARGIS), AutoDesk Civil 3D, Agisoft, RedToolBox, Pix4D, TerraDraw, CADTools, Survey Office, etc delivers CAD Line works and TIN surfaces*

## Services & Technology

You collect the field data, i.e., LiDAR (or) Drone Images and we process and deliver the drawing.

- Horizontal and Vertical Accurate Drawings
- Fast and professional delivery of CAD Files
- Human interacted Data Processing, Classification and Vectorization
- Complete and clean CAD Data Delivery as per required
- All the features shall be kept in proper layers and feature codes



Line works, points and blocks shall be drawn for all topographic feature available above the ground. Road Edges, Railway Line, Building Edges, Tree Locations, Utilities, Electric Poles / Lines, Rocks, Wells, Bridges & Culverts, Waterways, approach roads, etc shall be vectorised.

DSM, DEM, Spot Elevation, Contours, boundary lines, Land use details, Area annotation, Building annotation, Land mark annotation, etc

*Several Outsourcing Projects are completed for various clients in Europe, Middle East, Australia, and Africa.*

*Our annual turn-over from LiDAR and Data processing is about 70 million INR*

## Project Experience

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By using various software by our skilled engineers, we have vectorized point cloud data and Drone Images. We undertake projects all over India and abroad. Few Recent Projects Completed:

- Drone LiDAR Data processing for various state highways in the state of Kerala
- Mobile LiDAR Data processing for various roads in Europe
- Airborne LiDAR Data processing for various roads in Europe
- Drone Survey & Data Processing for Addu City Development, Maldives
- Drone LiDAR Data processing, Open Mining in Egypt

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Few Important Clients:



L&T



KIIFB



Helica, Italy



Louis Berger



AECOM



EGIS India



## Contact Us

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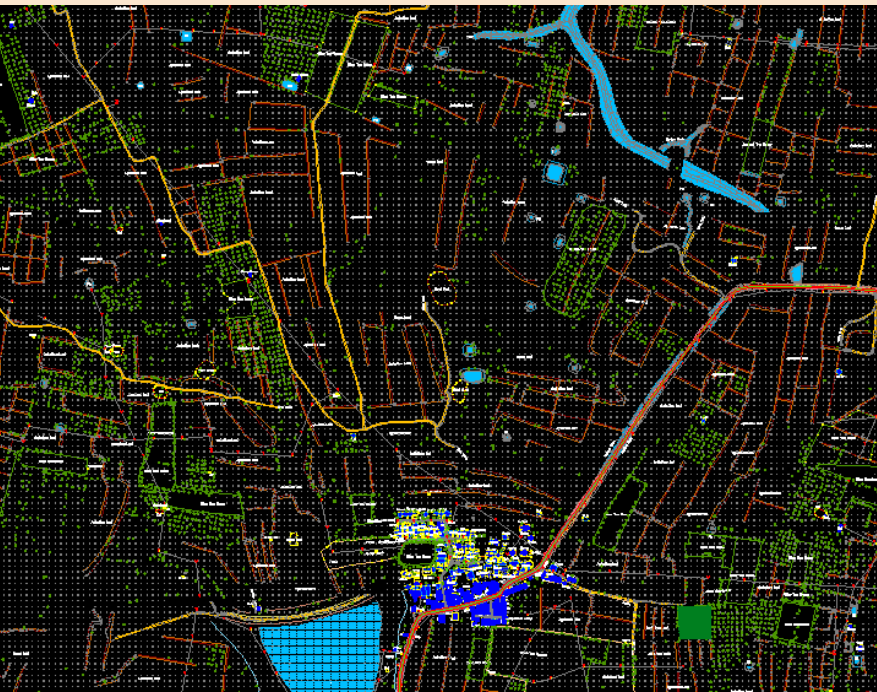
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