



LiDAR Solutions for Rail

SOKKIA



New route design & alignment
Track maintenance
Planning – ROW, quantity, earthwork
Disaster management

New rail route design
 Maintenance
 Derailment prevention
 Accident prevention
 Disaster management
 LiDAR survey and generate 3d terrain model & contours
 Technical viability study, location and layout
 Engineering detail, investigation, gradient & slopes
 Preliminary design support for track, bridges and structures
 Help in BOQ and cost estimate
 Topographic classification, wetland, city, low-lying,
 Information to determine 3 preliminary route selections
 Survey data for topographic, alignment and land use
 Inventory of safety devices, culverts, bridges, drainage
 Hydrology & drainage information
 Cut and fill material analysis
 Generating digital terrain model and contours
 Horizontal, vertical alignment
 Calculation of cant deficiency and gradient with weight
 Measuring of track transition curves
 Railroad switch and turnout conditions
 Rail inventory, track condition, bridge condition survey
 Infringement
 Track clearance
 Slope instability



Export :

Line work, 3D model, polylines, features, assets, street furniture, planes, edges, cross-sections, mesh, features, angles, lengths, heights, volume, vectors, annotation, colour 3D point cloud, break lines, ground, non-ground, surface grid, hill-shades, draped imagery, contours, intensity, texture, layers, DTM, classified points, assets, dimensions, line of sight, fly through, projection, etc.

Export Format:

DXF, DWG, BMP, GIF, JPEG, PNG, TIFF, CL3, CLR, PTX, CLD, IJ, LAS, OBJ, WRL, X3D, CLT, TRG, PTS, TXT, MSH, TN3, DGN, SHP, XML, PTC, ASCII, GeoTIFF, ESRI, USGS DEM, FLT, and other GIS & CAD formats.

Compatibility:

Softwares like AutoCAD Civil 3D, OPTRAM, RailTrack, Bentley, Microstation, Insight, sb Insight, BrIM, ESRI, GIS, etc.

