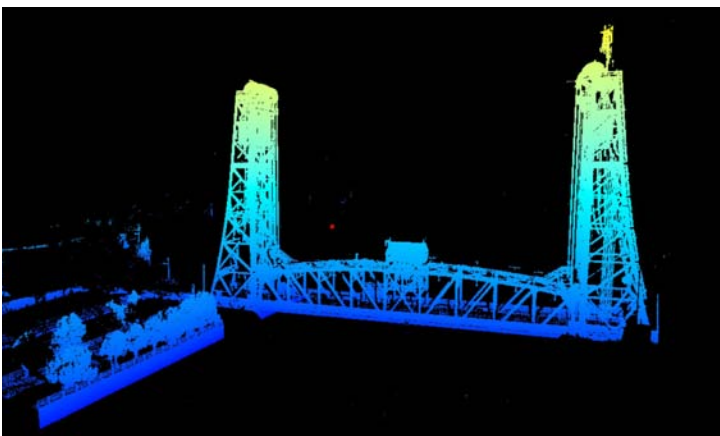




# LiDAR Solutions for Watershed

**SOKKIA**



1. Flood Simulation
2. Dam safety
3. Watershed modeling
4. Disaster Management
5. DEM and change detection
6. Open Channel, drain inlets
7. Outlet Structures

- Watershed modeling
- Stormwater infrastructure solution
- Flood routing & watershed characteristics
- Water intensities, time of concentration & runoff
- Backwater analysis and headloss
- Rainfall to discharge
- Delineate flood plain boundaries adjacent to rivers & streams
- River Bank heights and slopes
- Water Levels
- Volumetric Calculations
- Back Flow
- Disaster Management
- Catchment runoff and outfalls
- Engineering models for inlets, sewers, channels, stream, culverts
- Detention and overflow
- Dam structural analysis – modeling and monitoring

Floodplain – develop hydrologic and hydraulic investigations to delineate floodplain boundaries adjacent to rivers and streams, establish flood elevations and regulate development in flood-prone areas

Storm water modeling - We provides calculations for catchment runoff, gutters, inlets, junctions, pipe networks, and outfalls

Rainfall and Watershed Analysis - Analysis on peak flow rate, Determination of flow at your crossing, Options to model with unlimited number of watershed sub-areas, along with their corresponding runoff

Engineering operation - analysis of complex stormwater systems, engineers can model inlets, storm sewers, open channels, streams, culverts, pump stations, control structures, detention ponds, and overflows.

**Export:**

Line work, 2D drawings, 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 compatibility.

**Compatibility:**

StormCAD, CivilStorm, FlowMaster, CulvertMaster, AutoCAD Map 3D, Civil 3D, SolidWorks, Microstation, Bentley, ESRI, ERDAS, PCI, Mr SID, Terrasolid, Virtual Geomatics, Cadcorp, MapGIS, OrbitGIS, QCoherent, QGIS, Rockware and other geospatial enterprise softwares.

