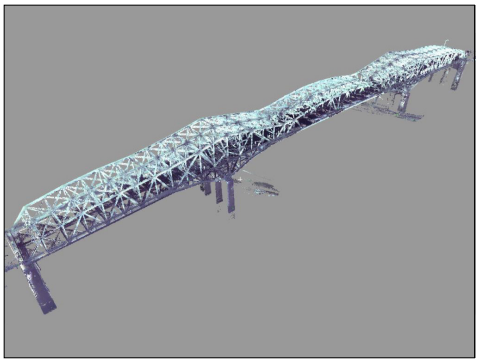
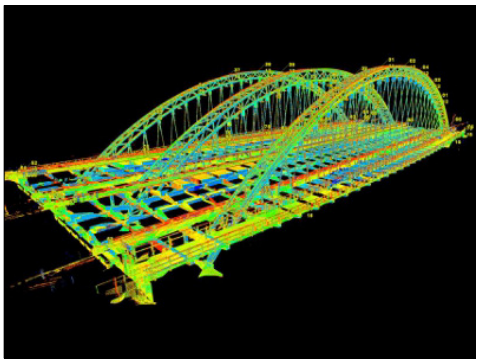
Multi Range Multi-D Imaging



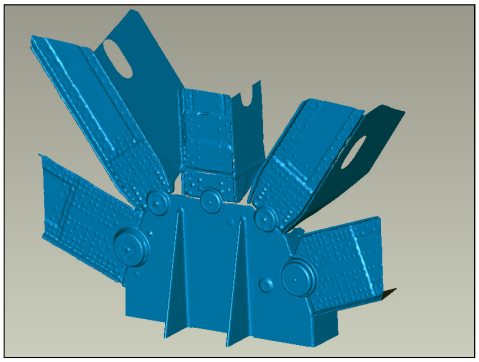


Bridges and Viaducts

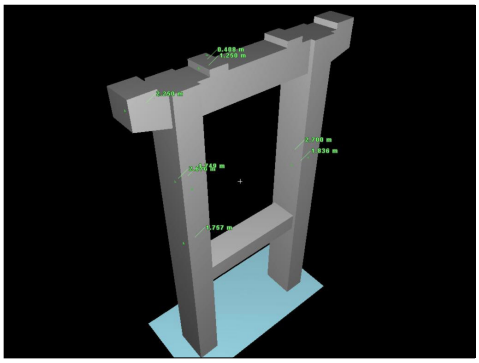
SCDS has demonstrated the effectiveness of applying the long range 3D laser scanning as a practical tool for the modeling and monitoring of complex medium to long span bridges.

Technological Features and Performances
- Accurate and fast data collection
- Custom workflows for adaptive 2D/3D modeling
- Custom algorithms/coding for analysis purposes

Efficient Solutions for:
- Production of as-built 2D/3D drawings of existing structures either via 2D/3D tracing or directly from point clouds; a major argument in favor of 3D laser scanning for documenting bridge structures is that risks associated with hands-on site exposure are considerably reduced
- Verification/production of shop-drawings for steel repairs where site access is extremely difficult or impractical
- Establishing a bench mark of pre-existing shape/state in order to detect structural changes resulting from exposure to extreme loadings such as thermal, earthquake, vessel/truck impact or fire
- Bathymetric scanning of submerged structures
- Creating intelligent GIS (Geographic Information System) maps, to query, analyze and display data on the fly, thus providing users with accurate and easy to interpret real time information concerning spatial location, size, terrain and site access



Available Export Formats:
- DXF/DWG, IGES, STEP, STL
- ASCII: XYZ, TXT, PTS



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