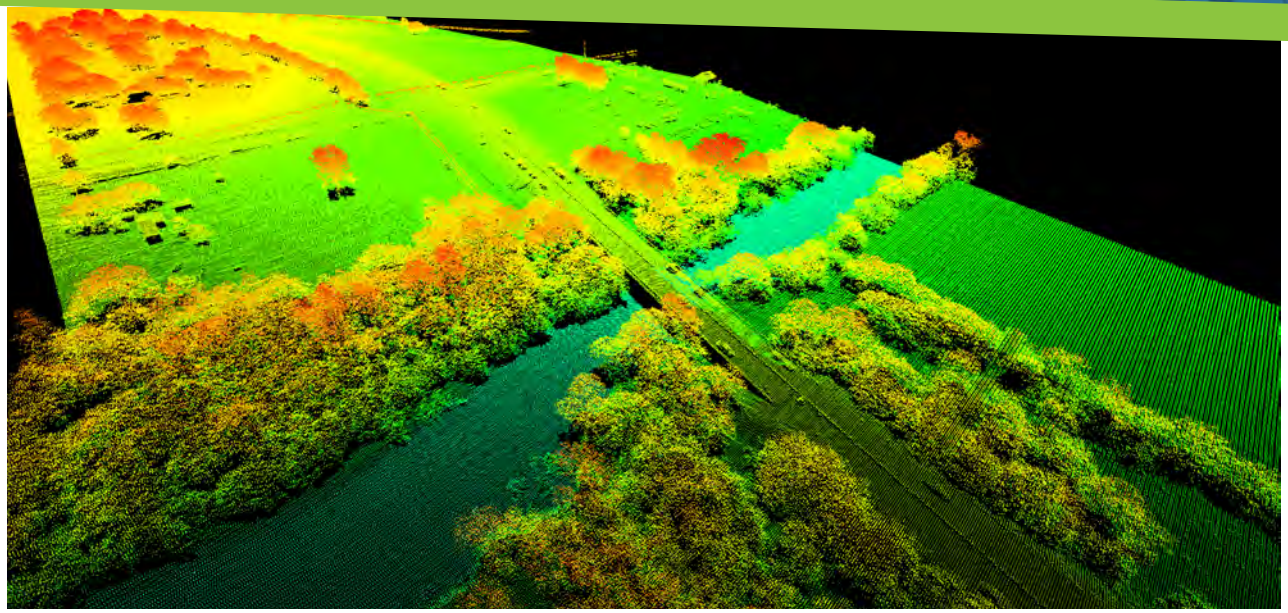
Surdex's Department of Transportation

Geospatial Services Experience



Lidar point cloud of Highway 81 for Lemke Land Surveying, contractor to the Oklahoma DOT

Since 1954, Surdex has provided mapping services to state Departments of Transportation (DOTs) and other state transportation entities. The datasets requested by DOTs have evolved, from film imagery, which is no longer used, to high resolution digital orthoimagery and lidar derivatives. Planimetric mapping data has drastically changed as well, from paper and mylar plots to digital files, including Bentley MicroStation V8 and GEOPAK formats. This data facilitates more precise planning for roadway repairs and improvements, including bridge and interchange projects. In addition to numerous direct DOT contracts, Surdex has also provided geospatial data as a subcontractor to surveying and engineering firms that are directly contracted with DOTs (as was the case with the image above).

State Prequalification

Efficient roadway repairs and improvements are essential to smooth and safe traffic flow and must be completed in a timely manner, and geospatial data allows for more effective design and execution of roadway projects. Many states maintain lists of prequalified contractors, which enables them to request geospatial data as needed rather than losing valuable time to the Request for Proposal or Request for Qualifications (RFP/RFQ) processes for each project. The map to the right indicates those states where Surdex maintains prequalifications. We have completed recent projects for many of the DOTs with which we are prequalified, including numerous task orders for the Illinois, Iowa and North Carolina DOTs.

Surdex's Department of Transportation Prequalifications and Experience

States where Surdex is prequalified with the DOT (or similar state entity)

States where Surdex has recently completed a project/task order for the DOT (or similar state entity)

Surdex's Department of Transportation Geospatial Services Experience

Services to DOTs

Each DOT has unique resources and data needs; as a result, we have a broad range of DOT project experience. In Iowa, Surdex acquires imagery in preparation for the photogrammetrists at the Iowa DOT who perform the mapping. In North Carolina it is the reverse—NC DOT provides the imagery, and we perform the processing and mapping tasks. Across our DOT projects we have provided the following services:

- Image acquisition and processing
- Lidar acquisition and processing
- Digital planimetric and topographic mapping
- Mobile lidar
- Control survey

Orthoimagery and planimetric mapping for the North Carolina DOT

Recent Transportation Projects

DOT	Project	Year	Services Provided
Iowa	I-380	2020	• 10 ppsm lidar acquisition • Lidar derivative production
Iowa	I-29 and I-680 flooding	2019	• 6" GSD imagery acquisition • Orthoimagery production (basic)
North Carolina	3.2 sq. mi. of roadway near Kit-ty Hawk	2019	• 3" GSD orthoimagery production • 1"=50' scale planimetric mapping
Illinois	I-55	2017	• 0.15' GSD imagery acquisition • 4 ppsm lidar acquisition • Orthoimagery production • Lidar derivative production • Topographic mapping • 1"=50' scale planimetric mapping
Oklahoma *(as subcontractor to Lemke Land Surveying)*	Highway 81	2019	• 0.25' GSD imagery acquisition • 2 ppsm lidar acquisition • Orthoimagery production • Lidar derivative production

SURDEX CORPORATION

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