



# **SURDEX** **Product Deliverables**

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**Orthoimagery • Lidar • Survey**  
**Planimetric mapping • Topographic mapping**

# Surdex Product Deliverables

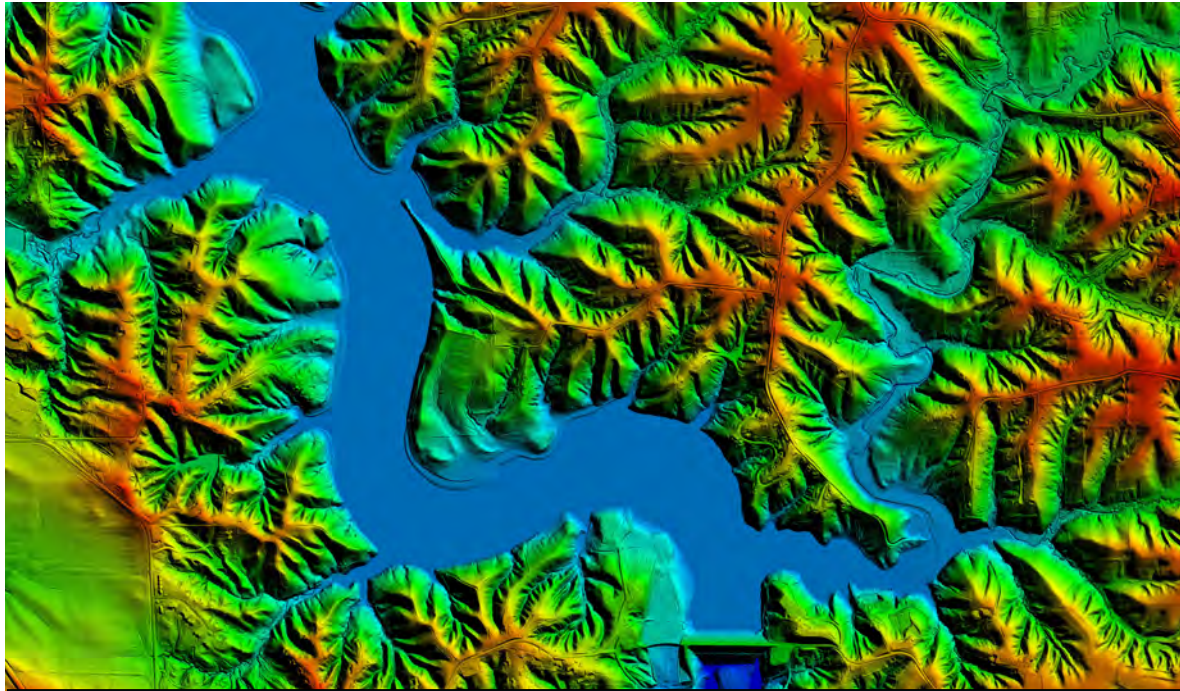
The following tables list the product deliverables that Surdex can provide, including example applications and file formats. We have only listed the most common formats – we can produce hundreds of different formats and will provide the data you need, in the formats you need!



## ORTHOIMAGERY

| Deliverables   | Applications  | Formats*  |
|--|---|---|
| Orthoimagery tiles (uncompressed)  | Large-scale analysis such as construction planning, monitoring residential development  | .tif, .sid  |
| Orthoimagery tiles (compressed)  | Display imagery with faster loading speed (e.g., on web services)   | .sid, JPEG 2000, .ecw                                 |
| Orthoimagery mosaics   | Print imagery of full project area, display imagery with faster loading speed (e.g., on web services)   | .sid, JPEG 2000, .ecw                                 |
| CIR imagery  | Forest and/or water resource monitoring, vegetative/crop analysis   | .tif, .jpg, .sid                                      |
| Seamlines  | Guiding QC efforts  | .shp, .gdb  |
| Metadata   | Determine collection year, projection and other data specifications   | .xml (FGDC and ISO)                                   |
| Stereo pairs   | Stereo viewing of orthoimagery  | .adj, .ads, .odf, .sup, .tif, .xml, calibration files |
| Surface models derived from stereo imagery <ul style="list-style-type: none"> <li>• 3D point cloud</li> <li>• Digital Surface Model (DSM)</li> </ul> | Tree canopy height measurement, volumetrics, line-of-sight analysis, change detection in the landscape, other assessments requiring terrain elevation | .las, .laz, .tif, .img                                |

*\*orthoimagery supplemental world files also provided where applicable (.tfw, .jgw, .sdw)*



## LIDAR

| Deliverables                  | Applications  | Formats*                       |
|-------------------------------|---|--------------------------------|
| Lidar point cloud             | Utility mapping, construction, waterway management, 3D modeling (e.g., of a city)   | .las, .laz, .dgn, .dwg         |
| Hydro breaklines              | Water resource assessment/analysis, base map features   | .shp, .gdb, .dgn               |
| Digital Elevation Model (DEM) | Water flow analysis, slope analysis, environmental assessment   | .img, .tif*, Esri grid         |
| Digital Surface Model (DSM)   | Tree canopy height measurement, volumetrics, line-of-sight analysis, change detection in the landscape, other assessments requiring terrain elevation | .img, .tif*, Esri grid, .laz   |
| Digital Terrain Model (DTM)   | Water flow monitoring, slope analysis, contouring, surface analysis   | .xyz, LandXML, GeoPak, InRoads |
| Intensity image               | Dataset that provides the user an easy to interpret view of the area; file will appear like a grayscale image   | .tif*, .img                    |
| Metadata                      | Determine collection year, projection and other data specifications   | .xml (FGDC and ISO)            |

\*supplemental world files also provided where applicable (.tfw)

## SURVEY

| Deliverables  | Applications               | Formats    |
|---------------|----------------------------|------------|
| Survey report | Check product accuracy     | .pdf       |
| Survey points | Independent accuracy check | .shp, .gdb |

# Surdex Product Deliverables



## PLANIMETRIC / TOPOGRAPHIC MAPPING

| Deliverables         | Applications  | Formats*                       |
|----------------------|---|--------------------------------|
| Contours             | Water flow analysis, slope analysis, environmental assessment                               | .shp, .gdb, .dwg, .dgn, GeoPak |
| Contour key points   | Reduced resolution dataset that allows for quick surface generation or contouring           | .shp, .gdb, .dwg, .dgn, GeoPak |
| Planimetric features | Tax assessment, impervious feature/water runoff assessment, transportation network modeling | .shp, .gdb, .dwg, .dgn, GeoPak |
| Metadata             | Determine collection year, projection and other data specifications                         | .xml (FGDC and ISO)            |



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