



# Land Surveying 3D LASER SCANNING

I&S Group utilizes the latest in 3D laser scanning technology to assist our clients plan and execute projects more efficiently. Designers and Owners are better able to visualize and incorporate detailed data about existing conditions, adding value to the project in a number of ways:

- » Collection and visualization of complex 3D data
- » Efficient data modeling
- » Additional and more accurate data result in reduced construction variables
- » Improved safety
- » Improved fit and coordination of proposed work
- » Improved scheduling

I&S Group provides 3D laser scanning and modeling services for the following types of projects:

- » Industry And Manufacturing Plants
- » Mining
- » Structural Analysis And Design
- » Architectural Restoration And Preservation
- » Interior And Exterior Building Modeling
- » Water And Wastewater
- » Transportation Projects
- » As-Built Surveys

### *What is 3D Laser Scanning?*

Three dimensional laser scanning makes it possible for surveyors to capture existing conditions of structures and formations with a degree of accuracy and completeness not formerly achievable—and to do so quickly and safely.

The scanner provides a “point cloud” of millions of discrete points and an associated georeferenced photograph of the survey area. The resulting data can be used in a variety of ways, including the generation of three-dimensional models, accurate measurements, volume calculations, and comparative analysis. This method also allows for the safe capture of this data in congested, hazardous, or hard to reach areas.



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