4SIGHT UTILITY ENGINEERS

4SIGHT is focused on Utility Engineering

4Sight is a Canadian-owned, niche firm with experience working on multi-billion dollar infrastructure projects with a variety of clients such as government agencies, municipalities, utility agencies and private developers in Canada.

4Sight utilizes Light Detection and Ranging (LiDAR) technology as a valuable tool to help clients create 3D models of both above and below-grade infrastructure, to assist with project planning and asset management.

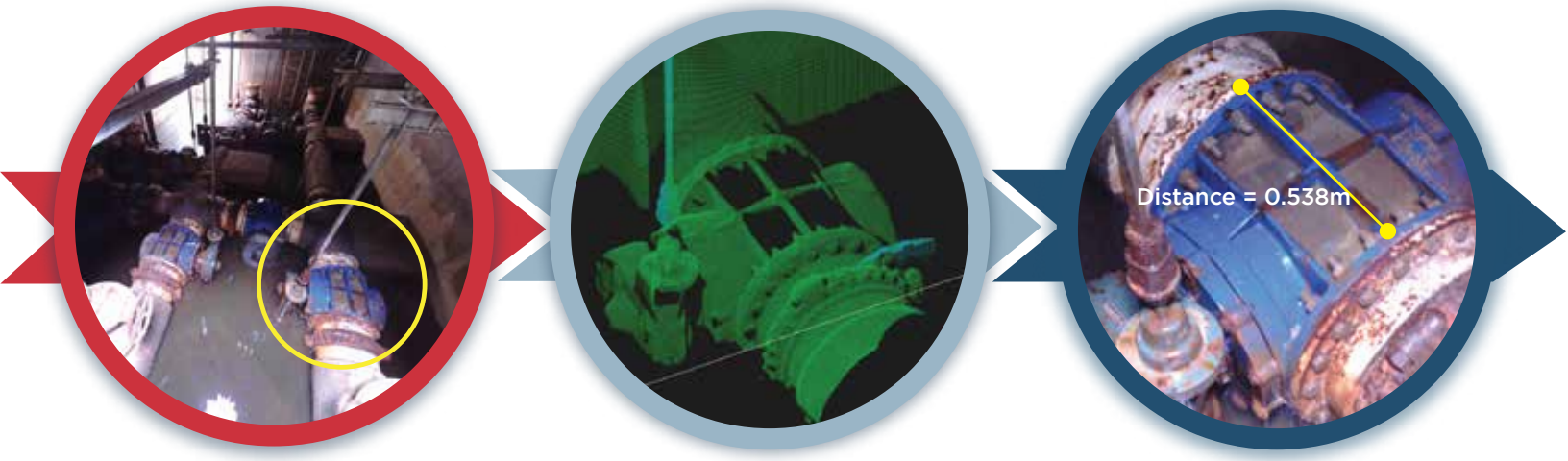
LiDAR Scanner

LiDAR

Powered by a robust software, we at 4Sight can generate accurate Point Clouds above and below ground. Below ground, 4Sight utilizes an inverse mounted tripod to place the LiDAR Scanner up to 5m below grade to obtain line-of-sight to the important information within chambers' confined spaces. The LiDAR scanner gathers information up to 70m and is accurate to 2mm at 10m and 3.5mm at 25m.

WHY LiDAR

We live and work in a 3 dimensional (3D) world, and since technologies have advanced, we can also design in 3D. Not only can 4Sight create 3D models of above ground features but 4Sight also focuses on infrastructure below ground. For example, utility chambers can occupy a large space underground, with limited information available from the surface. Utilizing a LiDAR Scanner to gather information below the surface provides unlimited amount of measurements within chamber. The data can be imported as a RCP file in AutoCAD, or within the free Scene LT Viewing Software. 4Sight can adjust the exposure time of the photos to improve quality. LiDAR utilization has several benefits compared to the old approach of gathering below-grade information with Confined Space Entry. These are some of the benefits of LiDAR: workers have safety above ground while the scanner gathers data below ground; confined space permits are not required; data collection, can be completed very quickly; and the technician can access the 3D Point Cloud anytime after the site visit for further measurements.



Lidar image in chamber | 3D-POINT Cloud Image | Accurate measurement anywhere

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