

Scanning applications and utility

Through the use of terrestrial laser scanners, buildings, structures and visible utilities and services can be scanned, modelled and mapped to mm accuracies. The data (known as a pointcloud) is collected remotely without the need often without the need to directly access the jobsite, providing several benefits including reduced costs and reduced exposure to risk for the field crew. The resultant 3D Pointcloud can then be integrated with other information in CAD, GIS and web platforms where it can be used by engineers make informed decisions. The data can also be integrated into the engineering design workflow to identify design conflicts and to test design feature ideas.

Laser scanning offers several advantages over traditional survey methods:

- Lower Survey costs, due to faster data collection and shorter project cycle times
- Reduction or elimination of costly return visits to the site
- More accurate, complete data sets for retrofit and design, that leads to less construction rework caused by interferences and fit-up problems
- Reduced facility downtime and simpler safety protocols, due to the remote nature of the scanning procedure
- Scan data can be delivered and shared with industry standard software such as Autodesk ReCap.