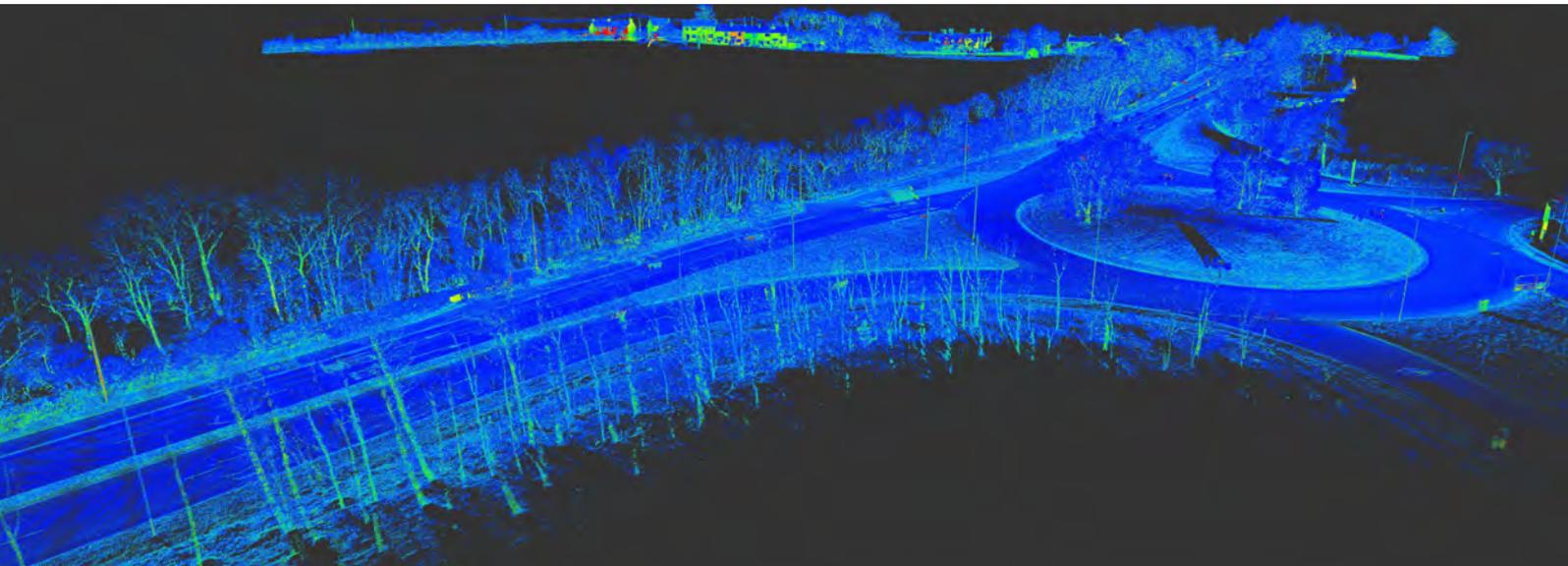


MOBILE MAPPING

Mobile Mapping has developed at the core of LandScape's delivery of geospatial services. The technology is rapidly changing the way in which environments are measured, mapped, visualised, and analysed.



BENEFITS

- **Safety:** removing survey personnel from high risk environments
- **Speed:** enormous productivity gains
- **Accuracy:** extraordinary levels of absolute and relative accuracy of data
- **Resolution:** 24MP 360 degree camera and up to 1 million points per second of LiDAR
- **Scalability:** options for integration with multiple sensors including GPR and pavement camera systems
- **Versatility:** ability to host from multiple platforms

APPLICATIONS

- Asset Inventory
- Condition Record
- Digital Twin Modelling
- Topographical Survey
- Visualisation

The technology is regularly deployed to the mapping of highways, rail, and urban environments, however applications are numerous. Recent projects also include parkland estates, forestry road networks, utility and process plants, as well as vessel deployment for ports and harbours.

Capturing high accuracy and high resolution data whilst travelling at speed ensures a safe, fast, and cost-effective survey solution. Removing survey personnel from live environments mitigates significant health and safety risk. Campaigns that would traditionally have required weeks to survey are now possible in days.

Our mobile mapping systems are portable and may be deployed from various survey platforms on road, rail, and water.



HIGHWAYS SURVEY VEHICLE (HSV)

Our bespoke Highways Survey Vehicle is permanently established with the Leica Pegasus II Ultimate system providing either basic mobile mapping or integration with the custom fitted ground penetrating radar system from Kontur (formerly 3D-Radar). The HSV boasts the capability of simultaneously capturing a high resolution record of both the above ground and below ground environment.

ROUGH TERRAIN

Various rough terrain / off-road vehicles may be fitted with our mobile mapping systems providing survey capability in the most remote and inaccessible environments. Utilising the Leica Pegasus:Backpack system, the surveyor may even dismount and acquire data on foot when the going gets really tough!

MARINE MOBILE MAPPING

Our survey vessel fleet is fitted with mobile mapping systems in support of marine asset infrastructure management and inspection. The data is often integrated with data acquired from our multibeam sonar systems, delivering a seamless 3D model both above and below the water.



VIEWING THE DATA

The LiDAR point cloud data may be viewed in a variety of standard software packages including Esri, AutoDesk, Bentley, and MapInfo. When combined with the photography, using an asset extraction tool such as Orbit 3DM from Bentley Systems, real value can be realised with asset information being extracted quickly and accurately.

Orbit 3DM software optimises the use of mobile mapping data to enhance the user experience from a basic viewing, content overlay and measurement environment to a complete end to end 3D solution. The user has access to feature extraction capabilities, point cloud visualisation tools and data sharing potential to obtain maximum value from the mobile mapping data.

Orbit 3DM software supports all 3D mapping data and has products to manage, extract, process and share.



RELATED SERVICES

Further information on our full survey portfolio can be found on our website: www.land-scope.com



Topographical Survey



Mobile GPR



Marine Mobile Mapping



Orbit 3DM Solutions
from Bentley Systems

