



CASE STUDY - MANCHESTER CITY CENTRE

ORDNANCE SURVEY, 2018

PROJECT SUMMARY

LandScope were commissioned by the Ordnance Survey to supply a number of 3D data sets covering an area of Manchester City Centre.

The provision of 3D data to the Ordnance Survey enabled them to augment their existing model to fully visualise, assess, accurately map and extract further highway infrastructure assets.

RESOURCES



DATA SUPPLY

3D Datasets;

- 1) Photo Position File
- 2) Individual Panoramic Photography
- 3) LiDAR Point Cloud in .opc and .las Formats
- 4) Consolidated Orbit Run

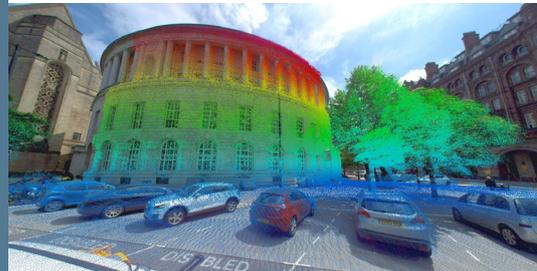


OFFICE PROCESSING

Orbit Geospatial Technologies



Ordnance Survey



PROJECT PHASES

1 DATA PROCESSING

Further post processing utilising Orbit Content Manager to create a combined dataset to add to the existing Ordnance Survey Orbit model.

2 DATA PREPARATION AND DELIVERY

Segmentation of run and preparation of various data files as specified by the Client.

Full quality check and digital file transfer.

THE DETAIL

Further to work previously undertaken for the Ordnance Survey, LandScope were commissioned to provide a number of 3D geospatial datasets covering specific areas of Manchester City Centre.

With reference to LandScope's existing data repository, we were able to supply mobile mapping data comprising of high density LIDAR and high resolution 360° panoramic imagery for an area predominating around Oxford Road, Oxford Road Railway Station and surrounding Central Library and Albert Square.

LandScope applied innovative processes and used the very latest technologies to create and provide a number of 3D datasets. This enabled the Ordnance Survey to fully visualise, assess, model, extract, augment and integrate into their existing highway infrastructure asset geodatabase(s) and software infrastructure. The resultant model provides locational information with the in-house capability to accurately extract further asset data with full attribution intelligence using Orbit software for efficient and rapid GIS population.

The provision of geospatial datasets and visualisation capabilities provides the Ordnance Survey with essential tools for developing smart city modeling and Internet of Things (IoT) connectivity.