CASE STUDY: HIGHWAY ASSET INVENTORY

Client: Oxfordshire County Council
Site: Oxfordshire
Survey Date: 2013 - Ongoing (Support and Consultancy)
Services: Asset Management, Mobile Mapping

Project Overview

As part of a requirement to create a complete and accurately geo-referenced highway asset inventory, LandScope were commissioned to carry out a mobile mapping campaign and design a geographical database for Oxfordshire County Council. The project consisted of circa 4500km of road network and captured in excess of 277,000 spatial features in the early stages of the project.

Key Project Phases

The project incorporated the following key elements:

• The acquisition of vehicle mounted mobile LiDAR and 360° panoramic imagery covering approximately 4500km of road network
• Creation of a detailed and scalable highways asset inventory with accurate spatial identification, attribution, meta-data and visualisation of individual asset features
• Integration into the Council's existing systems (Bentley XOR and Concepts-Online)
• Long term software maintenance, consultancy, training and technical support

The Solution

In order to meet the long-term asset management objectives of Oxfordshire County Council - to implement an effective regime to manage its highway infrastructure asset data - we utilised mobile mapping technologies to acquire data in a fraction of the time when compared with traditional methods.

This approach assisted the Council in achieving Level 2 in the Highways Maintenance Capital Funding Programme. Having the systems and trained personnel in-house, enables the Council to capture additional asset groups as part of their overall plan to move towards Level 3 and obtain maximum funding.

Additionally, the resultant system facilitates sharing of data throughout the organisation. Ensuring the Council obtain maximum value from their investment in 3D mapping technologies.