

Customer:
Bradford Metropolitan District
Council

Project:
On site data collection for Decriminalisation
of Parking Legislation

Solution:
Trimble GeoXT and FastMap Mobile

Case Study



checked there and then in the field without the need for data to be tidied up back at the office although tricky features such as double yellow lines going around corners would still need to be post processed.

Achieving Uniformity

Sydney continues, "One of the most complicated items that we have to collect is road signs – there are so many possible types and combinations on different mountings from posts to lamp posts to walls. Some of these signs also require an orientation, for example, a 'no right turn' sign needs to be specific to the direction of traffic flow. Others need to be positioned relative to their associated lines. The combination of the on-board FastMap Mobile and PC based FastMap Office software enables us to take predefined 'pick lists' into the field to uniformly record this type of attribute information. Each feature also has a QA facility which allows us to log the estimated accuracy of every surveyed item."

"Due to the large scale of the project we have employed six temporary staff, none of whom had previous survey experience. After a few days training, all were able to efficiently use the system out in the field."

"They've also been helped by the system's portability. The GeoXT has an integrated GPS antenna and the differential corrections are received by using a standard Bluetooth enabled phone which results in a far lighter more compact system than the old backpack."

Using the Data

The survey data will be used to validate the existing road signing and marking in the Bradford area, enabling discrepancies to be located and corrected, the efficient removal of items that are no longer necessary and in the issue of new Traffic Regulation Orders. Streets or roads where there are no relevant signs or road marks will additionally be recorded to show that these have been visited as part of the survey. Bradford MDC is also pursuing the idea of using map based Traffic Regulation Orders in the future. This means that the Order will be defined by the contents of a map in a similar way to the definitive maps used for Rights of Way.

T: **0845 603 1214**

E: **info@korecgroup.com**
www.korecgroup.com

Decriminalising Parking

The Decriminalisation of Parking legislation has meant that councils need an accurate and up to date record of all relevant road signings and markings.

Confronted by the need to accurately collect and position a huge range of previously unmapped features from yellow lines and parking bays to signs on everything from restricted traffic movements to loading restrictions, Bradford MDC's Survey Department quickly concluded that GPS was an essential tool to achieve the accuracy and productivity required.

Sydney Simpson (Land Surveyor) explains, "From early on we knew that sub-metre accuracy was a critical requirement for this project. The Bradford Authority area is large and diverse with both urban and rural regions that meant that we had a lot of ground to cover. We therefore needed a system that would be productive and easy to use whilst delivering uniform results in terms of both positional and attribute data. We were already familiar with the benefits of GPS and our previous GIS data collection surveys have all been carried out by our Land Survey Unit using a Trimble ProXR backpack GPS system. However, given the scale of this project and the advances in technology since our purchase

of the ProXR, we contacted Trimble's UK distributor KOREC to discuss how this technology could now meet our needs."

Using Trimble VRS Now

Following a thorough process of demonstrations and accuracy trials, Bradford MDC purchased 6 Trimble GeoXT handheld GPS's running Fast-Map Mobile data collection software. Already capable of delivering sub-metre accuracy in the field, Bradford MDC decided to improve this by subscribing to Trimble's VRS Now service to achieve accuracies of up to 0.3m.

Trimble VRS Now is a service that provides instant access to RTK corrections throughout the UK enabling users to increase real-time accuracy from sub-metre to 0.3m without the need for post processing back at the office. It also eliminates the need to use a GPS base station together with the time consuming complexities associated with setting it up. For Bradford MDC the solution means that most features could be correctly positioned onto the OS map background and