

MOTORCYCLE ROUTE SAFETY SYSTEM — DERBYSHIRE, ENGLAND



Motorcycle casualties in Derbyshire represent a high proportion of Killed and Seriously Injured (KSI) casualties, and there are a number key routes in Derbyshire that are responsible for a significant proportion of the KSI's.

The Motorcycle Route Safety Project (MRSP) is aimed at providing detailed information to the Partners of the Derbyshire Road Safety Partnership (DRSP). This information will be used to enable decisions to be made on policy, enforcement and publicity campaigns, as well as provide a technique to measure the effectiveness of these schemes and projects.

In partnership with Derby and Derbyshire Road Safety Partnership Q-Free has developed and installed a number of systems used to monitor and detect speeding Motorcyclists along some key routes in Derbyshire. With these unique systems the Motorcyclists are being accurately monitored and recorded for the very first time.

The system is based on the industry proven HI-TRAC® EMU and incorporates interfaces to both inductive loop and Piezo-electric sensor technologies. These in-road sensor technologies combine to give very accurate and reliable Motorcycle and HGV identification, and this is used to trigger outputs for warning sign activation. The system is also equipped with wet/dry/ temperature sensors which provide useful information for accident investigation purposes.

The remoteness of the sites presented some challenging problems with regards to power requirements, and so the system has been designed for installation in small roadside cabinets and powered using battery and solar panel systems.

Another benefit of the system is that it uses GPRS Real Time Communications to connect to the internet every 5 minutes to transmit real-time vehicle-by-vehicle data. This data is stored onto a communication server database and provides a fast connection to the C2 Web Reports for web based analysis and reporting.

