



Driving Innovation
in an ever changing world

The Cyclopath

W.D.M. Limited, has called on its unrivalled experience of testing the surfaces of UK roads to develop a specialist machine to check the safety of cycle ways.

The Cyclopath uses tried and tested laser technology to scan the surface of cycle paths to check for rutting, texture depth, changes in the transverse profile and any cracking. It has successfully completed trials in the West Country and in London and is based on proven technology.

It is a smaller version of the Company's successful Road Assessment Vehicle (RAV), which records defects on UK's roads.

In 2012 the Company's road surveying machines were used to check the London Olympic cycle routes and the Cyclopath is the result of several years of research and development.

The Cyclopath not only records the condition of cycle ways, but is fitted with a forward facing video to produce a visual record of the route being checked. It also comes equipped with GPS to enable local authorities and other stakeholders to produce an accurate map of the network.

It produced a Road Condition Indicator score every 10m, but weightings and thresholds need to be established on the National Cycle Network to develop a Cycleway Condition Indicator score.



The Cyclopath has a forward facing camera capturing an image every five metres of forward travel during a survey. Images are 1280 x 768, 24bit RGB colour compressed Jpegs, saved as a Windows AVI file.

Other technical specifications:

Longitudinal surface texture obtained by laser height measurements using 1mm sampling

Inertial longitudinal profile measurement (min speed 12 kph)

Continuous GPS location tracking +/-1m

Two metre wide transverse profile measurement sampled every 100mm (optional over 20mm) of forward travel. Profile measurement accuracy +/- 1mm.

Single drive / survey operator controls system using 1U PC

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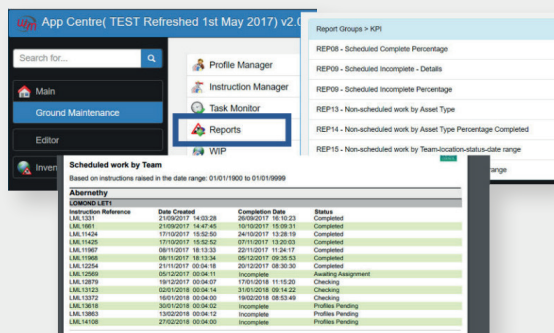
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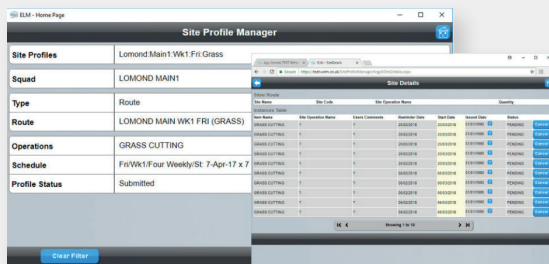
Work Scheduling

This allows the planning and issuing of all work – both reactive and scheduled – and operations can be scheduled either by individual sites or by groups of sites. Each operation will be set to pending until a user defined time before the work is due. It will then be automatically issued as instructions to the Work Flow Management System, called FloMan, and assigned to squads for use with the Mobile Working Apps, as required.



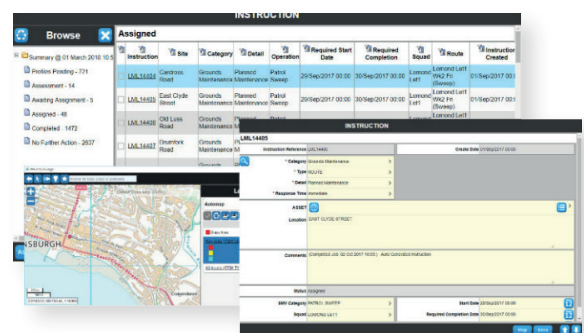
Flexible Work Flow Management (FloMan)

FloMan is the ultimate system capable of incorporating any work flow to any of the work types. Reactive work and public enquiries can be input directly to FloMan by users, or passed to the system via the Mobile Apps or the public facing web-based fault reporting system. They can also be sent via web-based interfaces to an external enquiry system. FloMan links to the web mapping tools for visualising where work is being undertaken and show progress graphically. FloMan can also manage contracts, bills of quantity and budgets, allowing all aspects of the operations to be monitored.



Integrated Reporting Tools

Commonly used reports will be published via the reports tool. These can be anything from paper schedules and job tickets to financial and performance reports. Many reports exist within the system, but non-standard reports can easily be created and published. Reports can also be scheduled and published to users and/or auto-emailed to users or user groups.



The ad-hoc reporting tool, Web Query Builder, provides user defined reports of any data held within the system. Table/Field selection, filtering and previewing is provided via a user-friendly query building wizard.

Ad hoc reports may be saved and exported in a range of formats. Where data is spatial, the Query Wizard allows map layers to be created for the WDM® Mapping System, but it can also be directly exported in a number of GIS formats e.g. Shape Files, Mapinfo and KLM for Google Earth.

