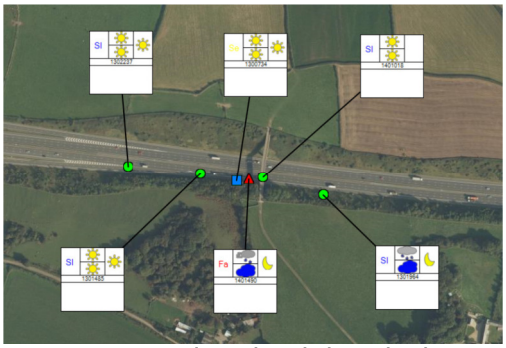
Driving innovation for an ever changing world.

Accident Management System (AMS)

Capable of operating within an Integrated Management System, Accident Manager is also available as a separate standalone module. In this mode, the software allows the user to:

- Import & Validate accident data;
- Fit accident data to a highway network (either NSG or Road / Section);
- Summarise, Query and Report Accident data;
- Perform cluster analysis;
- Calculate accident rates together; and
- Analyse Accident data against Road Condition Datasets, including SCRIM and
- Surface Texture.

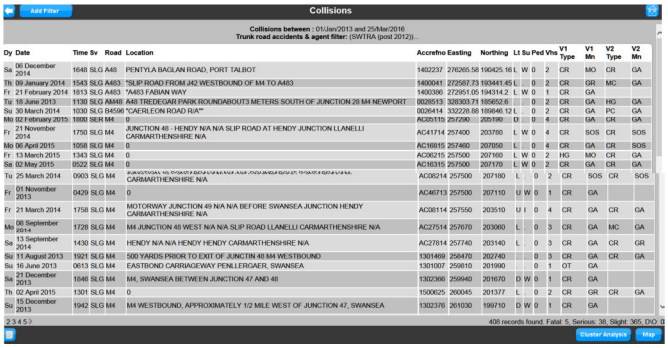


Data is imported by the accident import module. This can be direct from the police authority via the Department of Transports Stats 19 specification, using either of the last three quinquennial revue formats including 2005.

Alternatively, data may be imported using WDM® own accident import format. The accident import routine validates the data and provides reports to facilitate quick and easy cleansing.

Once imported and validated, the Fit Module is used to fit the accident data to the network used by the WDM® Pavement Management System (PMS) network by assigning a road section and chainage within a section to each accident. Accidents fitted to the network are assigned a status – fitted with an exact road code match, fitted using co-ordinates (no road code match) or unfitted. Graphical 'drag and drop' tools are provided enabling a user to manually fit accidents to the network.

WDM® provide a purpose built tool, webACC, to Query and Report Accident data using a web browser. The opening screen provides system filters to limit the dataset to a date range, exclude damage only accidents and/or to filter to a predefined or user defined polygon.



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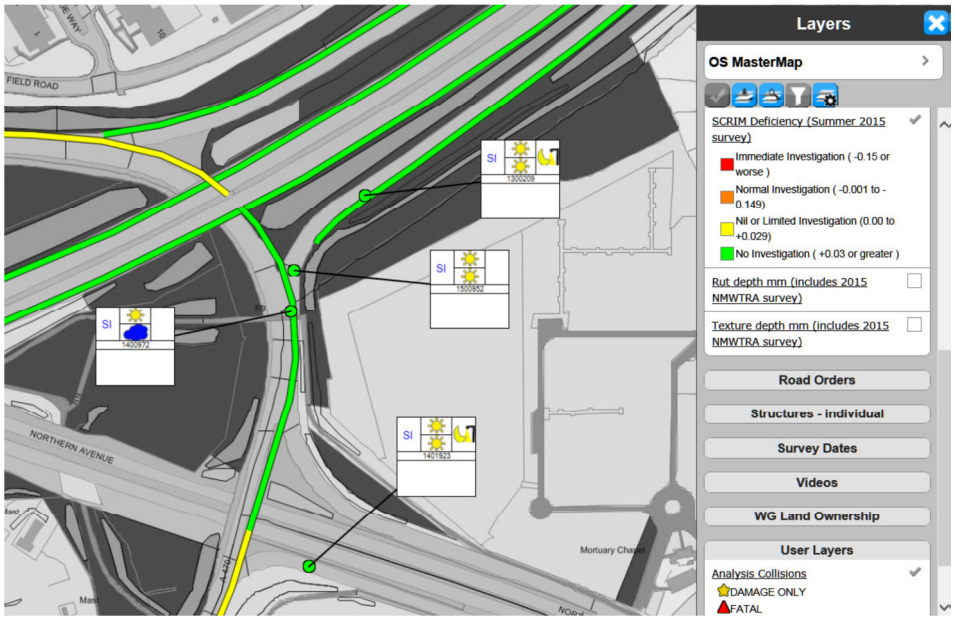
Data meeting the initial filter can be:

- Further filtered by any field of the Accident, Casualty or Vehicle records;
- Displayed graphically against digital maps; or
- Reported using a range of predefined reports including public, full, factor grids etc.

Three types of cluster analysis (KSI, Wet / Dry and General) can be undertaken on the queried data. The user can define the cluster radius and the summary bands used to present the data. The clusters may be reported either as a text report or against a map background.

One of the main strengths of Accident Manager is its ability to analyse accidents against highway condition datasets including SCRIM and Texture from the SCANNER.

Tools are provided enabling the user to perform queries such as show sites where the number of wet skidding accidents is greater than 1 and the SCRIM deficiency is below investigatory level. Other useful PMS datasets include Construction, which detail the carriageway surface material type, specification and date of construction. Again results may be reported as a text report, charted or displayed against a map background. Data can be exported out of Accident Manager in a number of formats including stats 21 / DfT