Structures Data Collector (SDC)

Using data supplied from the WDM® Structures Management System, Structures Data Collector (SDC) provides on-site data collection software allowing Inspectors to record Bridge Condition to the County Surveyors Society (CSS) Bridge Inspection rules. Additional Spans or Construction Forms can be added on site, updating the main Structures Management System on completion.

SDC runs on HTML 5 internet browsers (Chrome, Firefox etc) and is capable of operating on a wide range of devices including tablets such as I-pads, laptops or larger screen phones. The large fonts and inbuilt keyboard make Structures Data Collector specifically suitable for tablet Data Capture Devices. The structures to be surveyed are displayed against a digital map.

The Structure summary data is displayed pre and post survey, allowing the inspector to review and amend values including Inspectors and Engineers Comments. The span length, width and area are automatically populated from the WDM® Structures Management Database. Options are provided to transfer images between the Structures Management System and Structures Data Collector providing the inspector with information at his fingertips.

Health & Safety Information held against the Structure in the main Structures Management System is also available to view in SDC. These attributes are totally user definable but typically consist of Hazard, Special Equipment Required and Minimum Number Personnel. This aids the employer in his role defining Safe working arrangements for lone workers.
Each Element set is displayed on a separate screen. The Defect and Severity of each element are set automatically based on their relationship. Comments can be held against each element. Where input is not possible from pick lists, an inbuilt keyboard is automatically displayed. To aid the inspector in assessing the rate of deterioration the previous survey information is displayed beneath the current survey.

General Inspections may not be able to collect information on Elements inspected on a Principal inspection due access limitations. In this case, SDC will prompt the inspector with the information on the element from the previous PI. In the case of multi span structures, SDC also allows the inspector to copy defects between spans.

Demand Inspections can be partial inspections of a Structure, often focused on a single failing element. If a BCI is calculated from these surveys it can skew the overall results. SDC can be configured to exclude certain inspection types (e.g. Demand, Monitor etc) from calculating Bridge Condition Scores.

SDC aids the engineer manage the inspection regime and monitoring requirements of Sub-standard Structures as defined in BD79 including highway bridges, retaining walls and other highway structures subject to carriageway loading.