Pitney Bowes MapInfo

DATA SHEET

Confirm® Bridges and Structures

An Integrated Bridge Management System

Key Features

- A flexible, user-defined inventory capable of storing hierarchical models.
- Structures module can be supplied pre-configured with the CSS Bridge Condition Indicators (BCI).
- Multi-level condition and safety inspections may be scheduled and the results tracked and actioned.
- Mobile Inspection using Tablet PCs and Pocket PCs incorporating: GPRS, GPS, and GIS.
- Full historical maintenance works records to support whole life costing.
- Flexible design to manage a single large complex bridge and/or a stock of bridges and structures across an authority.
- Links to other Confirm Modules to support the Traffic Management Act to ensure bridge works have minimal impact on traffic flow.
- Deterioration and optimisation models as determined by the 'structures community'.
- Flexible and proactive adhoc works including: Automatic alerts on crucial dates, Pre-configured works progression.
- Links with Confirm's own Customer Services module, or a CRM.
- Rich reporting utilities including spatial and graphic display options.

OVERVIEW

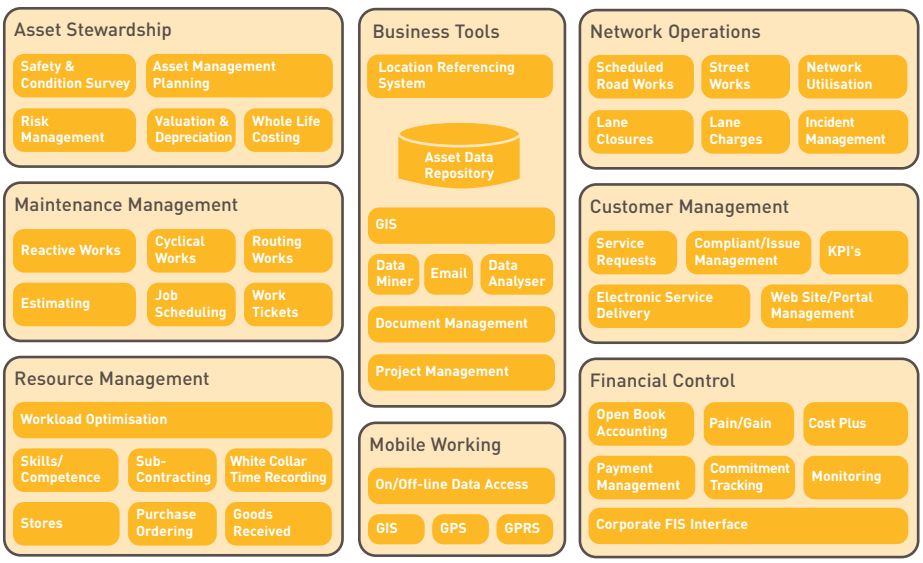
The purpose of a Bridge Management System is to enable the storage, manipulation, management and retrieval of data and information and to support Engineering Processes, Asset Management Planning and Resource Accounting and Maintenance Planning and Management. A BMS should achieve this effectively and efficiently, align with recognised requirements (e.g. Condition Indicators) be compatible with other systems for data sharing/transfer (e.g. Asset Valuation) and be reflective of the size and nature of an authority's highway structures stock.

Management of Highway Structures - the Code of Practice for Structures Management - published in September 2005, recognises that some of the recommendations in the Code cannot be readily implemented without a computerised tool and gives guidance for the essential components of a Bridge Management System.

CONFIRM BRIDGES AND STRUCTURE

Confirm Bridges and Structures is an integrated Bridge Management System, which meets all the requirements of a Bridge Engineer and the Code of Practice in a flexible, easy to use package. The system provides a comprehensive set of components that include:

- Asset Database
- Inspection Module
- Works Management Module
- Abnormal Load Management
- Prediction Models
- Whole Life Costing
- Performance Measures, including Bridge Condition Indicator
- Asset Valuation



A diagram of the main Confirm functionality is shown above.

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An Integrated Bridge Management System

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Asset Database

The system allows the user to define the asset inventory for any structure type by modelling the structure as a hierarchy of components. Each component may have user defined attributes associated with it which simplify the modelling of complex hybrid structures and allow for efficient data-entry. The system also allows for documents such as 'as-built' drawings, scanned photographs and video, to be associated with structures and their components. Full location referencing for each of the assets is available including location referencing based on a linear or fully spatial model.

Inspection

The system provides the facilities to manage the whole inspection process for each asset, allowing the user to define the aspects of the structure to be inspected and the applicable grades or values. Inspection results may be recorded at an individual component or group level. Inspection scheduling and performance monitoring tools provide a framework for the reduction in public liability claims and supports the defence against such claims. Engineers can tailor the inspection regimes to their own local conditions and policies, but facilities cater for Principal, General and Safety inspections as standard.

Abnormal Load Module

Through full integration with Confirm's network and integrated digital mapping the system facilitates the safe routing of abnormal loads. Flexible attributes against each structure hold the relevant restrictions and exceptions which can be highlighted against pre-defined standard abnormal load routes.

Prediction Management

The system includes a flexible data analyser that allows engineers to define their own deterioration models to predict the future condition of the structure and intervene at the most appropriate time.

Whole Life Costing

The system stores works records and all maintenance records, including replacements, upgrades and renewals to enable engineers to perform whole life costing analysis to feed into future maintenance decisions and scheme prioritisation.

Bridge Condition Indicator

The CSS Bridge Condition Indicator provides a condition score for an individual structure, a group of structures and a stock of structures. Confirm Bridge and Structures enables the condition indicator to be monitored over time to assess whether the condition is improving or remaining constant as maintenance is carried out. Additional functionality will be introduced to support new requirements, such as the Availability, Reliability and Workbank indicators currently being developed by the industry.

Asset Valuation

The system supports the move towards whole government accounting and asset valuation and allows valuations to be calculated in accordance with the current Asset Valuation Guide, published in July 2005. As Confirm Bridges and Structures is integrated with other modules.

Reporting

Confirm Bridges and Structures includes extensive reporting, including standard business graphics, and map/spatial based representations to communicate information to users, managers and stakeholders alike at a level appropriate to their needs and understanding.

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