

BridgeAsyst[®] bridge management system

consulting engineers | project managers | building surveyors | environmental scientists



A total bridge management solution
providing reliable prediction of
maintenance requirements to facilitate
future expenditure programs



sustainable *thinking*

consulting engineers
project managers
building surveyors
environmental scientists

BridgeAsyst® is an easy to use software package that allows bridge inspectors to work easily in the field with hand held dataloggers that communicate information on bridge condition and maintenance priorities.

Designed to enhance the decision making process through interactive risk assessment and reporting, this is a comprehensive management system that has been developed by bridge engineers with Bridge Asset Managers in mind. *The system is fully compatible with the philosophies of VicRoads and the Queensland Department of Main Roads.*

Benefits are:

- Ease of use
- Storage of all inventory and inspection data
- Maintenance scheduling
- Capital works budgeting
- Financial management of bridge stock to AAS27
- Interactive risk management
- Links to asset management systems
- Gathering of digital field data
- Photo linkages
- Monitoring of network bridge condition.

Inspection process

BridgeAsyst® uses contemporary inspection methodology, including the VicRoads Bridge Inspection Manual and the Queensland Bridge Inspection Manual. It stores information from Level 1, 2 and 3 inspections.

To provide inspectors with full functionality, a hand held datalogger records information that is then synchronised with the master database.

BridgeAsyst® Management Processes

Risk Based Maintenance Scheduling

A risk score is automatically generated within BridgeAsyst® for every defect in the network, by combining probability of failure and consequence of failure.

Ranking of scores then determines maintenance priorities and a risk based maintenance schedule is generated.

Financial Analysis

BridgeAsyst® provides a financial analysis module to calculate:

- Replacement cost of bridges
- Depreciated value of each structure
- Current value of bridge stock

Through adjustment of typical replacement costs, or by adjustment of replacement dates, bridges can be revalued when required. Reporting meets AAS27 requirements.

Capital Works Program

Using the replacement year data, a report is generated that identifies bridges to be replaced in ten-year groups, together with anticipated cost.

This allows Bridge Managers to review likely capital expenditure into the future and identify potential peaks.

Network Condition Modelling

Using risk scores for all components, an overall network score can be determined and used to benchmark the condition of all bridges against the designated minimum level for the road category.

BridgeAsyst® Links

BridgeAsyst® can easily be customised to link directly with generic Council Asset Management Systems and GIS packages.

Relevant Experience

Bridge engineering and management is a key strategic sector for **pitt&sherry** and BridgeAsyst® is being actively used by local government, state government and national rail authorities.

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