AssetWise Asset Reliability

Inspection and Maintenance Management for Transportation Infrastructure

AssetWise Asset Reliability provides comprehensive capabilities for inspection, maintenance, and management of transportation infrastructure assets. These proven capabilities give users universal access to bridge, tunnel, road, rail, and transit asset data – from the field, road, or office. AssetWise Asset Reliability integrates asset data that is useful for multiple operational needs, from inspecting and reporting to capital-project decision making.

Maximizes Use of Transportation Asset Information

AssetWise enables owner-operators of bridges, tunnels, roads, and rail and transit to maximize the use of transportation asset inspection information for onsite inspection, reporting, maintenance planning, project prioritization, and work scheduling. Quick access to all information allows organizations to turn needs into actionable plans.
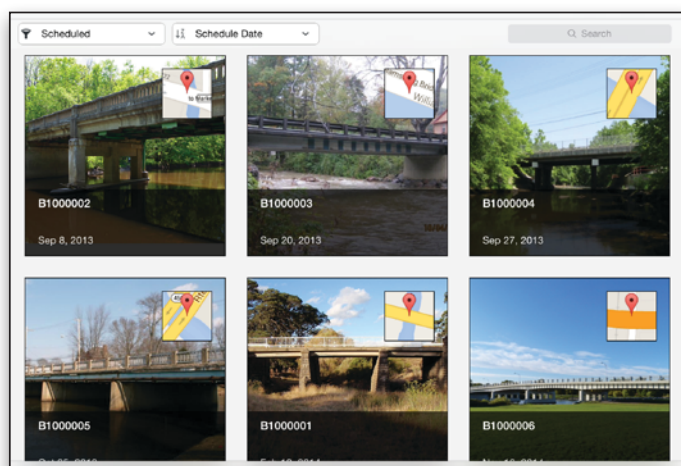
AssetWise users include departments of transportation, transit agencies, county and municipal governments, and engineering contractors. These organizations can comply fully with government and industry regulations, including those from the U.S. Federal Highway Administration (FHWA), Federal Transit Administration (FTA), and Federal Railroad Administration (FRA). The system helps users meet new requirements for the Moving Ahead for Progress in the 21st Century Act (MAP-21) across multiple transportation modes. AssetWise integrates with other Bentley applications for easy data exchange and works in combination with AASHTOWare's Bridge Management system.

Supports All Types of Transportation Infrastructure

AssetWise is the industry's preferred software for the inspection and inventory of all types of infrastructure assets, including bridges, culverts, signs, light poles, antenna towers, storm water, guardrails, retaining walls, and other ancillary structures. Deployed in a secure cloud-computing environment and monitored 24/7 by Bentley managed services, AssetWise provides an off-the-shelf offering that meets all FHWA, National Bridge Inventory (NBI), and MAP-21 requirements that allows for rapid implementation of the system. The AssetWise system also includes capabilities that allow users to configure the system to meet their agency's needs.

Streamlines the Entire Inspection Process

Using AssetWise, inspectors can quickly and effectively collect, analyze, manage, and report inspection data while working in the field, the office, or anywhere in

The mobile app allows all data to be collected in the field in disconnected mode and seamlessly sent to the server when a connection is available.

between using mobile tablets. The software significantly improves the quality, usability, and amount of data available to make key decisions while preventing errors and avoiding mistakes. Integrated collection, management, and maintenance capabilities make sharing asset information across an organization easy and efficient.

AssetWise delivers an array of capabilities that enable users to more effectively and efficiently manage infrastructure assets. A geographical information system (GIS), advanced report generation, security features, search and data retrieval, and an executive dashboard allow users to streamline asset management processes.

Support for rich data (pictures, video, audio, and other PDF files) and capabilities, such as direct in-context access to inspection manuals and historical data, add to the overall quality of asset inventory information and reports.

Rapid Implementation for US Highway Agencies to Meet FHWA and MAP-21 Requirements

- Meets FHWA and MAP-21 requirements for inspections and asset management

- Support for collecting of National Bridge Inventory (NBI) and AASHTO Bridge Elements

- Standard reports for National Bridge Inventory and National Bridge Element (NBE) FHWA file submission

- Performance metric reports and dashboards based on industry best practices

AssetWise At-A-Glance

Single Repository of All Transportation Assets
- Single source of truth data access
- Compatible with all transportation asset types
- Complete asset histories are stored and accessible
- Stores historic data and photographs

Inspection Configuration Tools
- Easily adjust inspection process with intuitive tools
- Quickly add inspection formats and attributes
- Ensure system is tailored to your specific agency needs

Automatic PDF Output Report Format
- Templates allow instant, uniform report generation
- Automatic photo referencing

Summary Dashboards and Reports
- Executive dashboards based on industry best practice performance measures
- Inventory-wide conditions are displayed and managed
- Summary reporting on comprehensive condition and deficiency information
- Ad-hoc reporting tools

Automatic Scheduling and Tracking of Asset Inspections
- Intelligent tracking of asset inspection type when required and when inspections are due
- Automatic alerts of upcoming and overdue inspections

Automatic Support for FHWA Requirements
- Full support for NBE inspection requirements
- All required federal NBI fields
- Federal NBI and NBE tape generation

On-site Data Entry Using Mobile Devices
- In-the-field data collection
- Automatic uploading of field data to the server
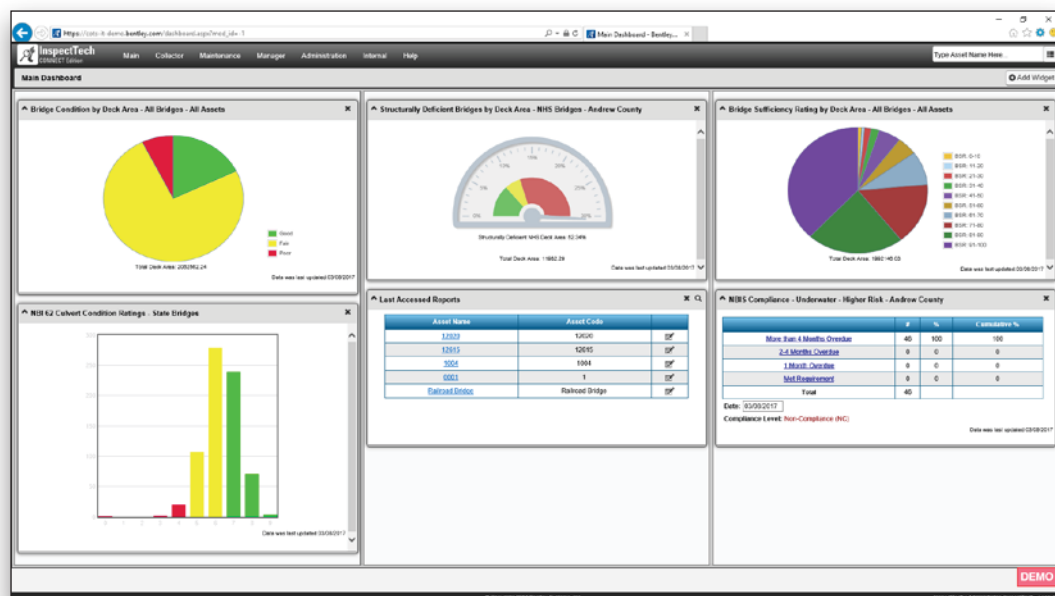- In-context inclusion of photos, audio, and video

Electronic Review Process
- Instantaneous, online report delivery
- Configurable workflow process
- Automated error checks

Integrated Inspection and Maintenance System
- Closes the loop between inspections and maintenance allowing inspectors to see what activities have been completed since the last inspection

AssetWise Asset Reliability is part of AssetWise CONNECT Edition. AssetWise Asset Reliability includes the capabilities of Bentley's proven heritage InspectTech product.

Executive dashboards offer a graphical view of how the asset inventory is performing against metrics and goals.