Bentley®
Advancing Infrastructure

CONNECT Edition

AssetWise Operational Analytics
Linear Asset Decision Support for Rail

AssetWise Operational Analytics for Rail (formerly Optram) is a railway decision support system that enables proactive management and decision support for linear railway assets. AssetWise is designed to help you turn railway data into actionable information, enabling better decisions about track and other maintenance-of-way assets. Track managers can confidently determine what work needs to be done, where to focus the work, and when to perform the work. You collect and maintain data from many sources. This data is often stored in separate systems and requires expertise to access and interpret. Making decisions by correlating data from many systems can be tedious, time consuming, and error prone.

Railways Use AssetWise to:

- Improve overall service, safety, and reliability
- Reduce maintenance and equipment costs
- Increase profit margins
- Streamline capital planning and operations
- Improve field-reporting accuracy

Big Data and The Internet of Things

Data collection systems such as track geometry vehicles, ground penetrating radar, laser scanners, video recorders, track walkers, and more can produce many gigabytes of data in a day. AssetWise efficiently stores, links to, and correlates this data for rapid access and analysis, enabling you to make timely and accurate maintenance decisions. AssetWise supports managing datasets containing hundreds of thousands of surveys and can be terabytes in size.

Data Analysis and Rules Engine

AssetWise has a library of 200+ linear network-aware data processing rules and commands that can be applied to extract actionable information. These rules can find clusters of defects, trend track degradation to plan surfacing, filter spikes and flat lines from measurement data and much more. Furthermore, these rules can be combined to perform sophisticated data analysis to extract more value from existing data.

Data Visualization

Data visualization is critical in transforming vast quantities of complex linear data into actionable information that users can readily access, understand, and utilize. Straight line diagram visualization features provide you with instant access to an informative representation of any combination of configured data types at any location on the railroad network.

Analyze rail condition history and forecast rail maintenance.

Source Data Integration

AssetWise brings together linear asset data from any number of sources and correlates the data by location and time. AssetWise includes a number of integration capabilities for importing files, linking to existing databases and web services to communicate with other systems.

AssetWise extends value to discrete or hierarchical asset data systems like EAMs and other CMMS or asset management systems, by combining linear with discrete data analysis, then feeding results back to the non-linear systems.

Data Security

Keeping your data secure is our top priority. Only your authorized users can access your data and visualizations. Our expert team works around the clock to keep your data secure, allowing you to focus on the results.

Cloud or On Premise Deployment

Deploy AssetWise fast and easily as a cloud hosted managed service that includes all capabilities installed, configured, and ready to use. No server hardware required. Start with a few users, and roll out to more users as data is populated. On premise deployments are available with support plans to help achieve success.

Find out about Bentley at: www.bentley.com

Contact Bentley
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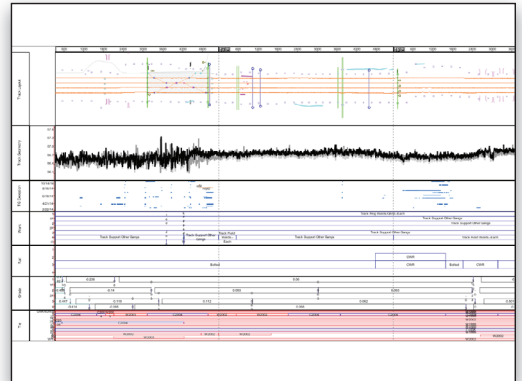**Global Office Listings**
www.bentley.com/contact

AssetWise
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AssetWise Operational Analytics At-A-Glance

- Plan rail replacement and surfacing work based on historic rail measurements
- Produce PDF track charts for distribution
- Proactively fix issues before they cause slowdowns or outages
- Import track and traction power measurements, assets and events from numerous sources
- Provide users with data-driven interactive electric track charts
- Quantitatively prioritize capital requests
- Publish PDF and paper track charts
- Focus production surfacing to only locations that need it

- Determine from rail wear history, where and when rail will need replacement
- Record information in the field on your tablet
- Produce straight line track schematics from GIS track centerlines
- Maintain a history of track measurements across multiple collection vendors
- Automatically generate incident reports including latest survey, work, and condition
- Monitor SGR Performance Metrics, Investment Prioritization, and Trend Analysis

Manage rail asset information.

Visualize rail asset and condition data from multiple sources.

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