OPENRAIL™
FOR
ASSET PERFORMANCE
Advancing asset performance to deliver safe, reliable, compliant, and cost-effective service.
WELCOME TO THE OPENRAIL FOR ASSETWISE® PERFORMANCE PRODUCT GUIDE

This e-book provides a look at how you can gain better insights into your rail and transit data and make the best business decisions using OpenRail for Asset Performance.

It also includes links to VIDEOS that show how OpenRail for Asset Performance supports the journey to digitalization by empowering effective asset management practices and enabling BIM management of information through the whole lifecycle of a built asset.

If you have questions or need more information, please visit www.bentley.com/OpenRail-for-Asset-Performance or call 1-800-236-8539.
RAILWAYS AND TRANSIT AGENCIES USE OPENRAIL FOR ASSET PERFORMANCE TO:

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

RAIL PREDICTIVE MAINTENANCE

TRANSPORTATION INSPECTION
OPENRAIL ASSET LIFECYCLE INFORMATION MANAGEMENT (ALIM)

Trusted information, when and where it’s needed
OpenRail Asset Lifecycle Information Management (ALIM) manages rail and transit information throughout the lifecycle of change – ensuring the delivery of relevant, trusted information, in context – where and when it is needed.

Connected Data Environment®
The OpenRail Connected Data Environment (CDE) leverages existing investments in BIM processes, establishing an open framework for collaboration and asset information management throughout the lifecycle of transportation infrastructure.

Spatially-enabled Asset Information
OpenRail ALIM provides the ability to view and use information from a graphical perspective for spatially-located assets and related information. This allows you to view information in a manner that can support enhanced decision-making across different types of linear assets and information.

Support Positive Train Control (PTC) Information Management Requirements
A key element of PTC is managing the information related to the rail network and trains operating across it — speed limits, track composition, speed of individual locomotives, train composition, and more. OpenRail ALIM helps enable PTC deployment and provides best practice configuration management capabilities and information integrity in a changing environment.
OPENRAIL ASSET RELIABILITY

RELIABILITY STRATEGY, INSPECTION, AND MAINTENANCE MANAGEMENT FOR TRANSPORTATION INFRASTRUCTURE ASSETS

Achieve a State of Good Repair
Bentley’s rail and transit operations solution ensures you have well-maintained, reliable transit infrastructure – including track, signal systems, bridges, vehicles, and stations. Quickly update/add facility inventory and condition assessment into a fully managed reporting system, mitigating missed FTA deadlines or incomplete/inaccurate assessments, while providing a repeatable method to produce high-quality decision support outcomes and prioritization.

Streamline the Entire Inspection Process
Using OpenRail, inspectors can quickly and effectively collect, analyze, manage, and report inspection data while working in the field, the office, or any location using the application on mobile tablets. The software significantly improves the quality, usability, and amount of data available to make key decisions, prevent errors, and avoid mistakes.

Rolling Stock Fleet Management
Rail and transit operators need to ensure that their fleet management practices achieve more efficient maintenance to save costs and improve rolling stock availability. OpenRail for Asset Performance can help you improve the asset reliability and performance of your rolling stock fleet.

Meet Federal Transit Facility Condition Assessment Requirements
Bentley’s OpenRail Transit Facility Condition Assessment capabilities are purpose-built for FTA facilities and inspections and are the ideal solution to satisfying the new FTA requirements and advancing any agency’s Transit Asset Management (TAM) plan. OpenRail automatically calculates the overall facility condition assessment score per the FTA guidebook, supports the FTA reporting requirements, and includes standard configurations for detailed data collection of all facility components. Transit agencies can achieve significant cost savings by leveraging the out-of-the-box functionality, which enables rapid deployment to achieve immediate results in the hosted and purpose-built web and mobile applications.
OpenRail Operational Analytics is a railway decision support system that enables proactive management and decision support for linear railway assets. OpenRail 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.

**Data Analysis And Rules Engine**
OpenRail has a library of more than 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.

**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. OpenRail efficiently stores, links to, and correlates this data for rapid access and analysis, enabling you to make timely and accurate maintenance decisions.

**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.

**Improving Rail Maintenance Strategies**
Railways can do more with less resources if they can better manage rail information and harness the vast amount of existing rail corridor data in a prioritized plan, assign the work, and monitor the execution and results with technology applications.

The OpenRail for Asset Performance solution can help you perform analysis and data trend forecasting that enable your engineers to make better-informed decisions about maintenance and renewals.
OPENRAIL FOR **ASSET PERFORMANCE**

DRIVE YOUR DIGITAL JOURNEY WITH OPENRAIL FOR ASSET PERFORMANCE

› Improve overall accessibility, quality, integrity, and relevance of rail asset data

› Gain better insights into your data and make the best business decisions

› Ensure your assets are safe, reliable, and efficient over their operating life using OpenRail for Asset Performance

[TELL ME MORE](#)

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