

Optimize Asset Performance with Digital Innovation

How to gain detailed insights to improve asset operations and availability, ensuring safety and sustainability

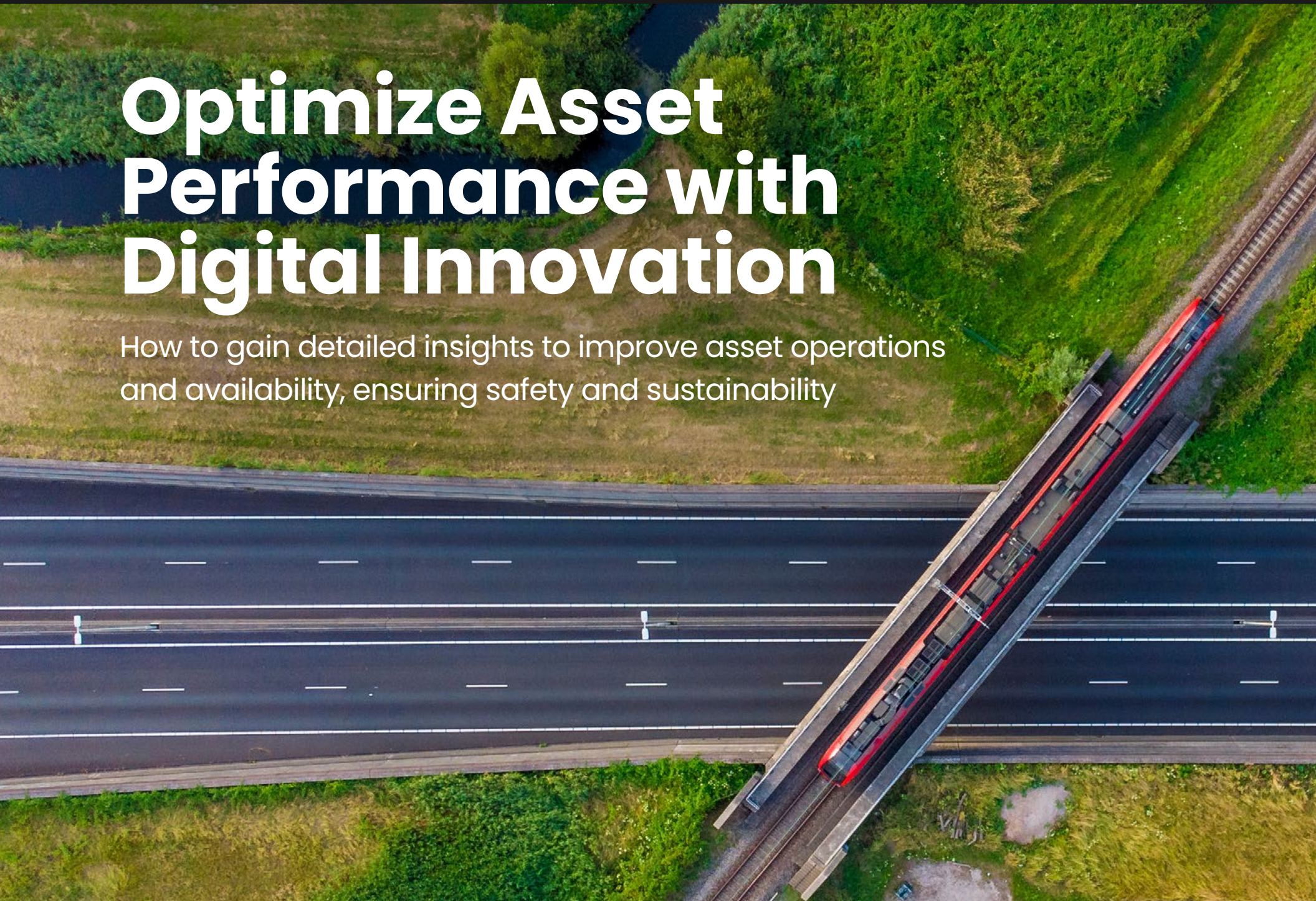


Table of Contents

Page

4	Industry Challenges and the Case for Change
5	Discover Infrastructure Built Better
7	Asset Performance Management
8	Asset Information Management
9	Operate
10	Industry Leaders Trust Bentley Asset Performance Solutions
12	Getting Started





It's time to modernize infrastructure asset operations and maintenance with intelligent solutions that provide up-to-date asset information, optimizing performance, reducing operating costs, and ensuring safety and sustainability.

Industry Challenges and the Case for Change

Many infrastructure owners and operators face pressure to reduce operational costs and enhance asset productivity. Their key objectives are to deliver more with less, achieve higher uptime, and keep their assets running longer—beyond their original planned life.

But the obstacles are many.



Managing disparate data

Accessing data across disparate sources is inefficient and time consuming. Owners and operators need a way to improve visibility of operational performance and make faster, more intelligent decisions.



Access to meaningful insights

Owners and operators face pressure to increase production and extend the life of their assets. The challenge is even greater without meaningful data and real-time IoT asset insights that would help maximize asset performance.



Maintain reliability and integrity

Without an efficient and accurate method for continuous asset monitoring and proactive maintenance, owners and operators struggle to avoid breakdowns that disrupt operations.



Ensure safety and sustainability

Decreasing budgets adds potential risks and exposes the safety of your infrastructure asset and ability to ensure operational readiness.

Digital solutions help optimize infrastructure asset operations and increase asset availability, ensuring safety and sustainability as well as reducing cost to operate.

Discover Infrastructure Built Better

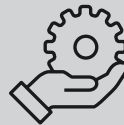
Innovative digital solutions for owner operators across multiple industries, including energy, utilities, process, and road and rail, enable them to control information and understand the health of their assets, maximizing the value of their investments and achieving efficiency goals.

With real-time analysis, actionable insights, and decision support, your teams can optimize performance, mitigate risk, and reduce costs while ensuring safety and compliance.



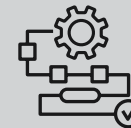
Real-time analysis and insights

With trustworthy data, actionable insights, and decision support, your teams can optimize performance and reduce costs while ensuring safety and compliance.



Enhance operations and management

Advanced analytical and decision support capabilities enable comprehensive insights for optimized efficiency, improved safety, and service delivery.



Elevate performance and integrity

Define tailor-made maintenance strategies and risk-based analysis to make informed decisions based on operational IoT data and engineering insights.

77% of asset owners state lowering maintenance costs is a priority
72% saw an improvement in workforce productivity

ARC Advisory Group report on Intelligent Asset Management

The background of the slide is an aerial photograph of a dam. The water is a vibrant teal color and is in a state of high turbulence, creating white foam and swirling patterns as it flows over the dam's spillways. The dam structure itself is made of concrete and has several spillways visible. The overall scene conveys a sense of power and industrial infrastructure.

Bentley's AssetWise® portfolio of innovative solutions helps owners and operators to model and optimize asset performance successfully, enabling them to be more productive, avoid disruptions, and improve overall operational performance.

Asset Performance Management

Optimize asset availability and improve the productivity, safety, and sustainability of your operations

Built for: Maintenance professionals and operators, heads of asset management and operations, and reliability and integrity teams/engineers

Industries: Energy, mining, transportation, utilities and water, cities and campus

Our asset performance management solution is the solution for owner operators across multiple industries. The solution enables you to control information about your assets, help optimize asset performance management, maximize the value of your investments, and reduce operating costs, as well as improve safety and reduce the overall business risk of operations.

The screenshot displays the Bentley Asset Performance Management software interface. The main window shows a risk matrix for a failure mode: "Failure Mode: 000754: Pump gland water line plugged." The matrix is based on "Estimated TBF without maintenance" (3,000 years) and "Probability" (ranging from P <math>< 0.1</math> yr to > 10 yr). The matrix cells are color-coded by risk level: Green (Low), Yellow (Medium), Orange (Medium High), Red (High), and Extreme (Extreme).

Probability	Not analyzed	Low	Medium	Medium High	High	Extreme
P <math>< 0.1</math> yr	Not analyzed	Low	Medium	Medium High	High	Extreme
P $0.1-0.3$ yrs	Not analyzed	Low	Medium	Medium High	High	Extreme
P $0.3-1$ yr	Not analyzed	Low	Medium	Medium High	High	Extreme
P $1-3$ yr	Not analyzed	Low	Medium	Medium High	High	Extreme
P $3-10$ yr	Not analyzed	Low	Medium	Medium High	High	Extreme
P > 10 yr	Not analyzed	Low	Medium	Medium High	High	Extreme

Below the matrix, there are sections for "Economic...", "Health and Safety...", "Environmental...", "Reputation...", and "Consequences..." with corresponding risk levels (e.g., Slight, Minor, Local, Major, Extreme).

Increase asset availability 2%–10%

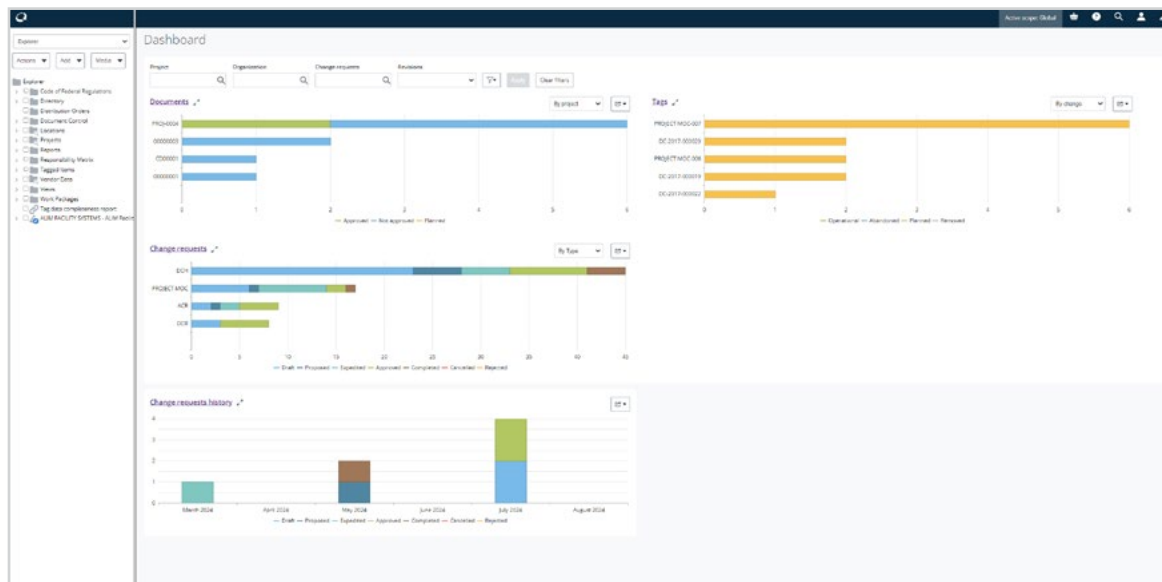
Asset Information Management

Access trusted information across the infrastructure lifecycle to make better decisions faster.

Built for: Vice presidents/directors, maintenance and asset managers, information managers, heads of engineering

Industries: Energy, transportation, utilities and water, cities and campus, mining

Our asset information management solutions enable you to manage information through the life of an infrastructure asset, from design and build through operations. Explore how you can bring all the information together, including engineering models and files, operational IoT data, and enterprise data from maintenance management and ERP systems. Provide your operators and technicians access to trusted and accurate information to make the right decisions through intuitive 3D models of the asset to ensure the safety and sustainability of operations.



**Reduce
information
search time
by 30%**

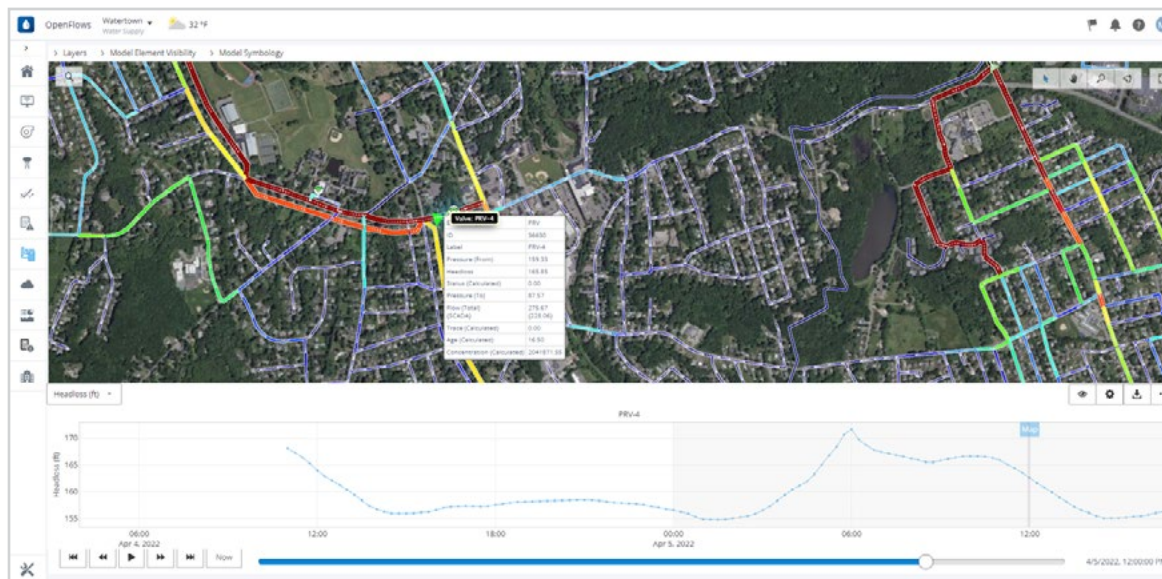
Operate

Run your operations more reliably, productively, and safely to deliver more value

Built for: Heads of operations

Industries: Cities and campus, utilities and water, transportation, energy, mining

Our solutions enable operators of infrastructure assets, such as rail, or highway networks, to extract maximum value of their infrastructure investments, ensure safe operations and regulatory compliance.



**Reduce
operational
costs by 20%**

Industry Leaders Trust Bentley Asset Performance Solutions



OQ

Digitalized reliability and integrity program

By using AssetWise Asset Reliability, the OQ team increased asset reliability by 25.7% and reduced environmental flaring by 82.6%.

[Read more >](#)



EPCOR Utilities

Risk-based asset management

They digitized processes to quantify asset health and achieve a 15% improvement in reliability.

[Read more >](#)

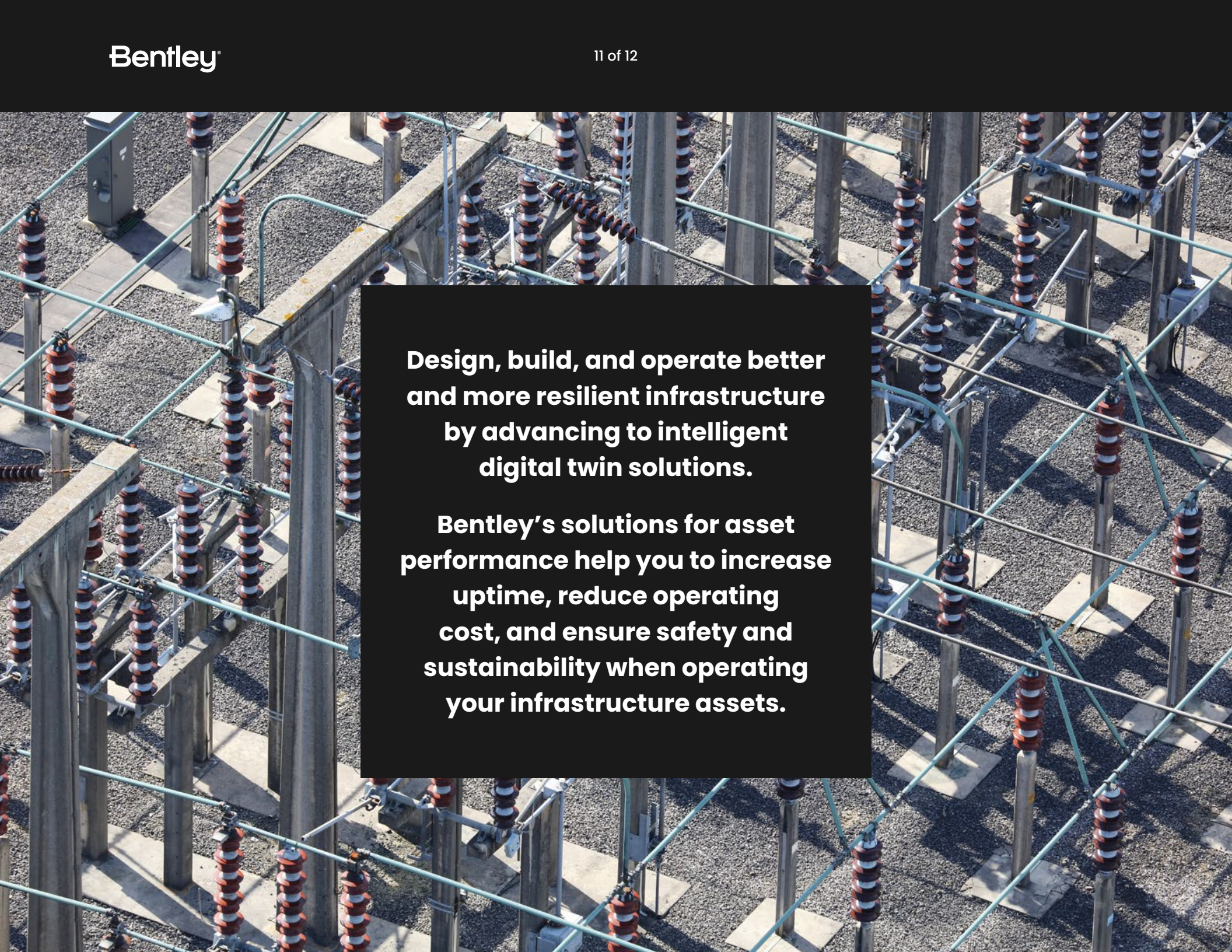


SMRT Trains

Rail reliability across 282 kilometers of track

The team leveraged AssetWise to optimize all maintenance decisions and achieved 1 million mean kilometers between failure (MKBF) across their rail lines.

[Read more >](#)

The background of the slide is a high-angle photograph of a high-voltage electrical substation. The scene is filled with a complex network of metal structures, including tall concrete and steel poles, cross-arms, and insulators. The insulators are prominent, showing their characteristic red and white striped patterns. The ground is covered in gravel, and the overall lighting is bright, suggesting a sunny day. The perspective is from an elevated position, looking down into the substation.

**Design, build, and operate better
and more resilient infrastructure
by advancing to intelligent
digital twin solutions.**

**Bentley's solutions for asset
performance help you to increase
uptime, reduce operating
cost, and ensure safety and
sustainability when operating
your infrastructure assets.**

Getting Started

Bentley is the infrastructure engineering software company. We make it easy for organizations to find the product licenses that offer the best options, affordable prices, and the training that you need to be successful.

To learn more about AssetWise, speak to one of our experts.

Let's Talk

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