



Rail Engineering Solution

Stay on track with connected data, design, and documentation

Shorter deadlines and reduced budgets mean those that are tasked with delivering critical rail projects face increasing challenges. Delivering new and maintaining or upgrading existing rail networks requires a complex mix of skills and insights. Bentley's Rail Engineering Solution optimizes design and reduces rework by integrating designs across engineering disciplines, ensuring compliance with industry standards and automating project deliverables to avoid time and cost overruns.

ACCELERATE DESIGN AND DOCUMENTATION

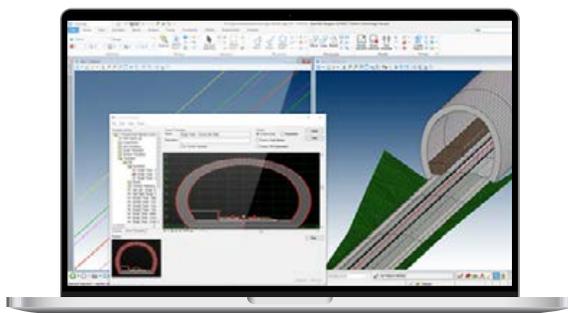
The Rail Engineering Solution includes design applications built for low- and high-speed assets, distinguishing it from other generic solutions that require visual programming, specialists, and multiple applications. Leverage model-based design with built-in standards to increase design efficiency, accelerate plan production, and generate a data-rich environment that remains valuable beyond the design phase.

ENSURE COMPLIANCE WITH INDUSTRY STANDARDS

When designing rail infrastructure, safety is a critical component, and engineers must ensure that designs conform to contract requirements. User-defined design rules ensure projects follow local requirements leaving engineers free to focus on the design process. As every project is different, standards are user customizable and not specific to any one system or country.

IMPROVE COLLABORATION WITH OPEN DATA ACROSS BENTLEY AND THIRD-PARTY APPLICATIONS

Break down data silos across disciplines by leveraging a connected data environment. Working together in a unified model environment makes it easier to access, use, and manage project data. Real-time visibility prevents the loss of crucial project insights, resulting in smarter choices, fewer revisions, and faster project approvals.



KEY BENEFITS

- ◆ Use digital delivery to alleviate the pressures of project requirements.
- ◆ Use purpose-built software with rail specific capabilities to complete a variety of complex rail design and maintenance tasks.
- ◆ Leverage 3D models across the entire asset lifecycle, including through digital twins, on projects of any size or complexity.
- ◆ Configure rail workspaces that set design standards to meet local and contract requirements.
- ◆ Incorporate data from multiple sources regardless of format, or complexity.
- ◆ Reduce risk of error with rail object and schema-driven association of design elements that ensure model consistency.
- ◆ Minimize change orders that lead to cost overruns, specifically those related to subsurface conditions.
- ◆ Meet contract requirements with one data-centric workflow.
- ◆ Find and solve interdisciplinary conflicts prior to construction.
- ◆ Automate plan production and a variety of rail specific deliverables.
- ◆ Access expert services, best practice implementation guides, and on demand training.

