



BETTER RAIL NETWORKS

BEGIN WITH
OPENRAIL™
DESIGNER

Bentley®

WELCOME TO THE **OPENRAIL DESIGNER** **PRODUCT TOUR GUIDE**

This e-book provides a look at how OpenRail Designer software supports the evolving BIM requirements that help you **connect the data, people, workflows, and ideas** necessary to support today's infrastructure projects.



It also includes links to more than **10 VIDEOS** that illustrate how the software addresses your critical business issues, such as collaborating across disciplines, ensuring engineered design intent, and improving the deliverables for each project.

If you have questions, or need more information, please visit www.bentley.com/OpenRailDesigner or call **1 800 236 8539**.



SOLVE YOUR **CRITICAL BUSINESS ISSUES**

OpenRail Designer CONNECT Edition was built with your critical business issues in mind. It's a single application that handles a wide variety of complex tasks such as yard/station design, tunnels, corridor modeling, turnout and switch placement, overhead line electrification, site development, sanitary and stormwater network design, subsurface utilities, and production of construction staking reports.

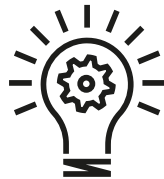
OpenRail Designer provides you with the necessary workflows, toolsets, and flexibility to deal with real-life design scenarios on global rail infrastructure projects. The application adapts to virtually any rail design and maintenance workflow, and is suitable for light rail, metros (transit), heavy rail, high-speed rail, and MAG_LEV projects.

Are you ready to rapidly model design intent, edit dynamically, ensure international standards, work in all disciplines, and continuously model as you design your project in one application? Then you're ready for OpenRail Designer. Learn how you can work in one composite model to provide a wide range of project deliverables.

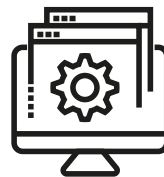
EXPLORE MORE >



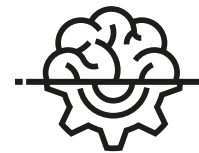
REALITY CONTEXT



DESIGN INTENT



MULTIPLE DISCIPLINES



ADAPT TO CHANGE



DELIVERABLES



WITH **OPENRAIL DESIGNER** CONNECT EDITION, YOU CAN:



Incorporate real-world conditions into your virtual design environment for better decision making.



Create intelligent models with relationships and associations between civil elements to ensure design intent.



Integrate design data from multiple disciplines to improve collaboration, accuracy, and efficiency.



Use a federated model to dynamically update edits throughout the project workflow to easily adapt to change.



Produce project deliverables, such as machine control guidance, models, and other data, needed for today's requirements.



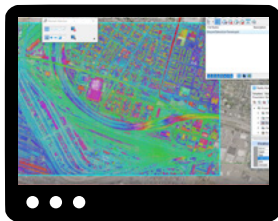


DESIGN IN **REALITY** CONTEXT

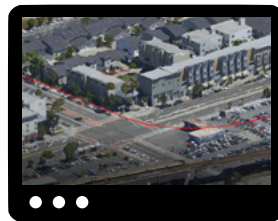
OpenRail Designer helps you effectively understand existing conditions. You can incorporate, analyze, and manipulate a wide range of data, such as **point clouds, reality meshes, photogrammetry, total station surveys, and terrain**. Quickly produce 3D models using “field collected” project information to enhance and improve engineering design decisions.

Utilizing a model that has captured real-world conditions will help you to better understand the site throughout planning, design, construction, and operation of your infrastructure asset.

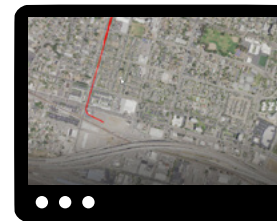
LEARN MORE BY WATCHING THE VIDEOS BELOW >



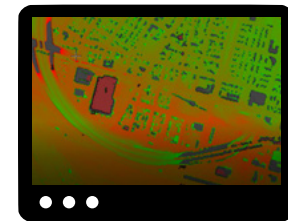
POINT CLOUDS



REALITY MESHES



RASTER IMAGERY



TERRAIN MODELS



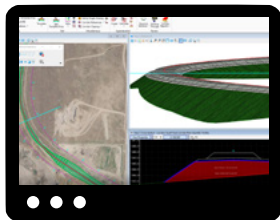


MODEL YOUR **DESIGN INTENT**

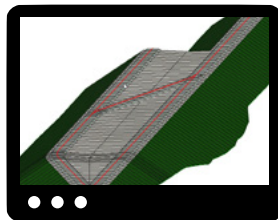
Model with design intent as OpenRail Designer offers new and innovative technology that **captures, stores, and maintains how each design element is created**. As a result, you'll build design associations and relationships between civil elements to ensure that the design always reflects engineering intent.

With OpenRail Designer, you'll accelerate your design production and ensure that standards are implemented using innovative technology, such as interactive modeling, dynamic relationships, and relational intelligence.

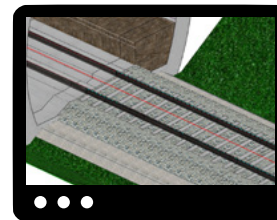
LEARN MORE BY WATCHING THE VIDEOS BELOW >



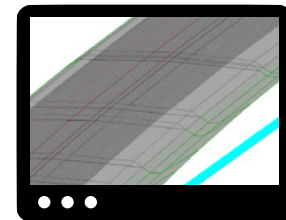
CORRIDORS



SIDINGS



RAILS & SLEEPERS



DRAINAGE





INTEGRATE **MULTIPLE DISCIPLINES**

OpenRail Designer allows you to see and use everyone else's data within the confines of your own application.

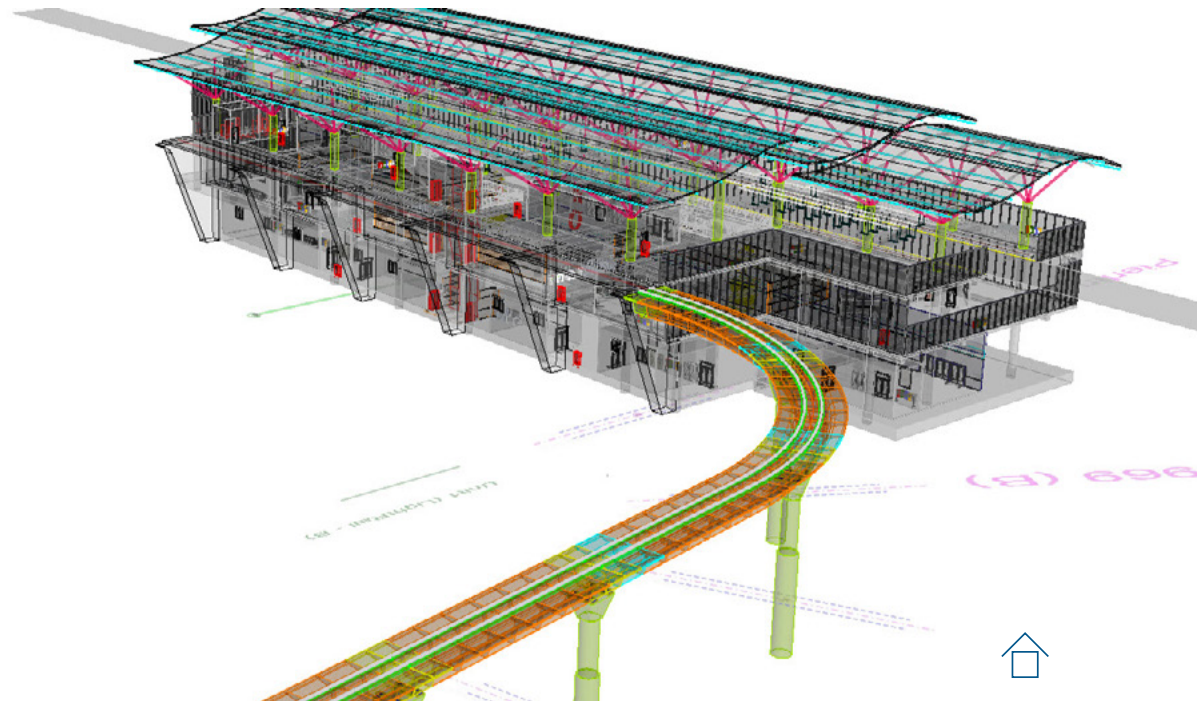
This true integration helps you analyze, model, and report on all project data within a singular model.

Whether you're modeling railway stations, tracks, pathways, and over/underpasses, use the same technology to create an integrated project model. By using OpenRail Designer's open modeling environment, you can combine 3D project data from any source to enrich project understanding, make better engineering decisions, and reduce risk by minimizing errors and omissions prior to construction.

LEARN MORE BY WATCHING THE VIDEO BELOW >



**INTEGRATE MULTIPLE
DISCIPLINES**



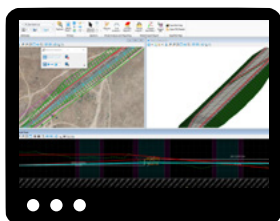


ADAPT TO **CHANGE**

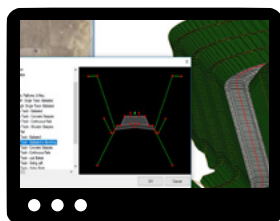
Change is a constant in the design and production world. As a design professional, you need to **easily, effectively, and dynamically manage design changes** without project delays. That's why designers and engineers turn to OpenRail Designer.

Using a model-centric approach, designs are dynamically updated throughout the model, guaranteeing that the current design is up to date and readily available for all team members. This approach not only removes the frustrating and tedious work for the designer, but also positively impacts the organization's return on investment.

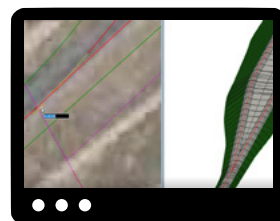
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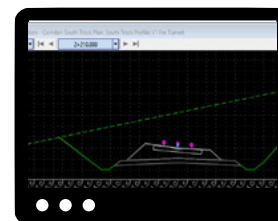
ALIGNMENTS



CORRIDORS



TURNOUTS & SIDINGS



**CONSTRUCTION
DOCUMENTS**





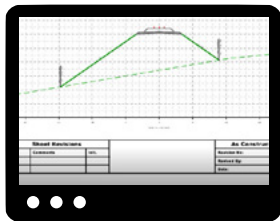
IMPROVE **PROJECT DELIVERABLES**

Construction drawings are no longer the only expected deliverable. Engineers and designers are now required to provide additional data, such as automated machine control guidance, 3D models, and other digital information. OpenRail Designer improves project deliverables by broadening the construction documentation and data that you can produce to meet project requirements.

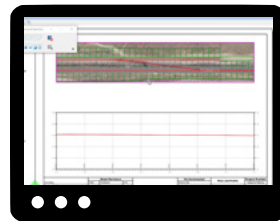
OpenRail Designer **automates the production of a complete array of design deliverables.**

Using design constraints, design-time visualization, dynamic annotation, and automated plan production based on the live model, you are assured that all project information is consistent and up to date.

LEARN MORE BY WATCHING THE VIDEOS BELOW >



CROSS SECTIONS



PROFILES



OPENRAIL DESIGNER

OpenRail Designer was **built to solve your critical business issues** so you can support the growing industry demands and efficiently meet increasing contract requirements.

This all-in-one application allows you to save time on the design and maintenance of track, station, and yard design, as well as overhead line electrification (OLE), while significantly increasing productivity.

Get started with OpenRail Designer today to improve existing rail systems, meet safety requirements, expand rail systems, and meet BIM requirements.

[TELL ME MORE >](#)

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