

Bentley
Advancing Infrastructure



SYNCHRO™ 4D

A Proven, Industry-leading 4D Digital Construction Management Solution

SYNCHRO 4D is designed for construction modeling, planning and scheduling, visualization, simulation, and project controls. All construction team members can build digital projects on the screen and extend the value of 3D models by adding time, the fourth dimension. Serving as the real-time source of truth, SYNCHRO 4D can help solve the time-cost conundrum, increase safety, and reduce both employee and project risks.

Extend the Model's Value

SYNCHRO 4D provides a wholistic and purpose-built construction solution, enabling projects to construct, plan, and track projects based on a construction model. Users can easily communicate and present the construction plan and schedule, allowing for trade partner collaboration and commitment with confidence, on-time execution and delivery, and quicker approval for payment. The web and mobile applications extend the value of the 4D construction model by exchanging and managing 2D, 3D, and 4D models with geolocated, rich data in the project context. Teams can efficiently access and author data to make more informed decisions.

Plan, Construct, and Track from Models

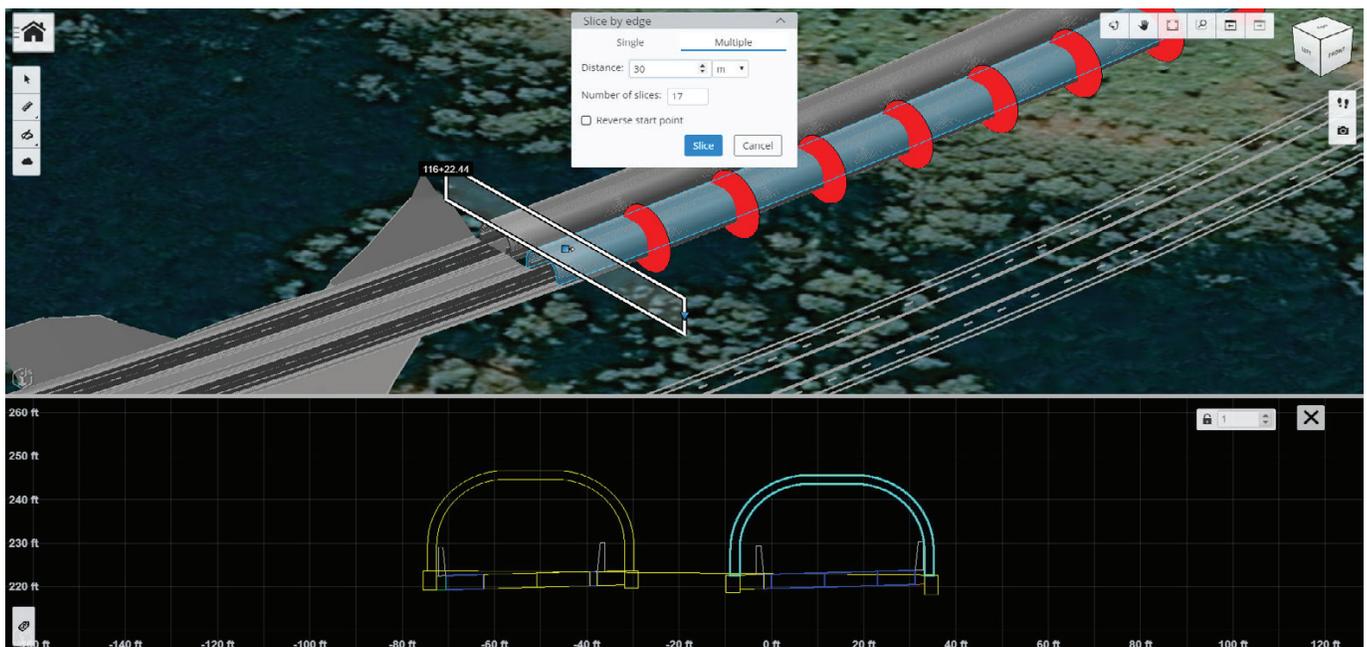
Slice and dice your design into a construction model with auto-populated quantities while keeping original design intent. Display both 3D models and the schedule in one environment to perform model-based scheduling. Add construction equipment and paths to schedule activities to visualize conflicts and resolve them before construction. Perform "what-if" analysis to reduce risks and delays by reviewing time-lapsed construction sequences. Identify areas that are ahead or behind schedule through a planned-versus-actual visualization.

Connect between Office and Field

Extend the value of the 4D model into field workflows for status checks, work planning, review, and inspections within the SYNCHRO portfolio. With connected applications and workflows, a project team can review, validate, and communicate in one complete digital and interactive visual environment that includes documents, forms, and models.

Enable Digital Twins

SYNCHRO 4D, powered by Bentley's iTwin® technology, enables 4D construction models to be accessible by stakeholders as a single source of truth. It empowers users to navigate and author construction models from gathered design models. The application also features best-in-class interoperability with a variety of third-party modeling and scheduling capabilities.



System Requirements

Processor

2.8GHz Dual Core minimum; 3.33GHz Dual Core recommended; 4.0GHz Quad Core enterprise specification; only 64-bit (x64) processors are supported.

Operating System

Microsoft Windows 7, Microsoft Windows 8/8.1, Microsoft Windows 10, Microsoft Windows Server 2012 (all editions); only 64-bit (x64) operating systems are supported

Memory

16 GB minimum; 32 GB recommended; 64 GB enterprise specification

Disk Space

1.3 GB for installation files, 1.0 GB for each project file (typical); Solid State Drive recommended providing enough storage space (500 GB+)

Graphics Card

1 GB (DirectX compatible) minimum; 2 GB recommended; 4 GB (NVIDIA with CUDA support) enterprise specification

Display

1280x1024 minimum; 1920x1080 recommended; 2560x1600 or 2560x1440 enterprise specification; dual monitors recommended

Find out about Bentley at: www.bentley.com

Contact Bentley

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Global Office Listings

www.bentley.com/contact

SYNCHRO 4D At-A-Glance

Deliver Projects On Time

Partnering with Microsoft means that you are working with best-in-class cloud technology. Plan, manage, construct, track, and review your construction projects in 4D, providing the entire project team with real-time progress updates.

Eliminate Rework and Protect Your Budget

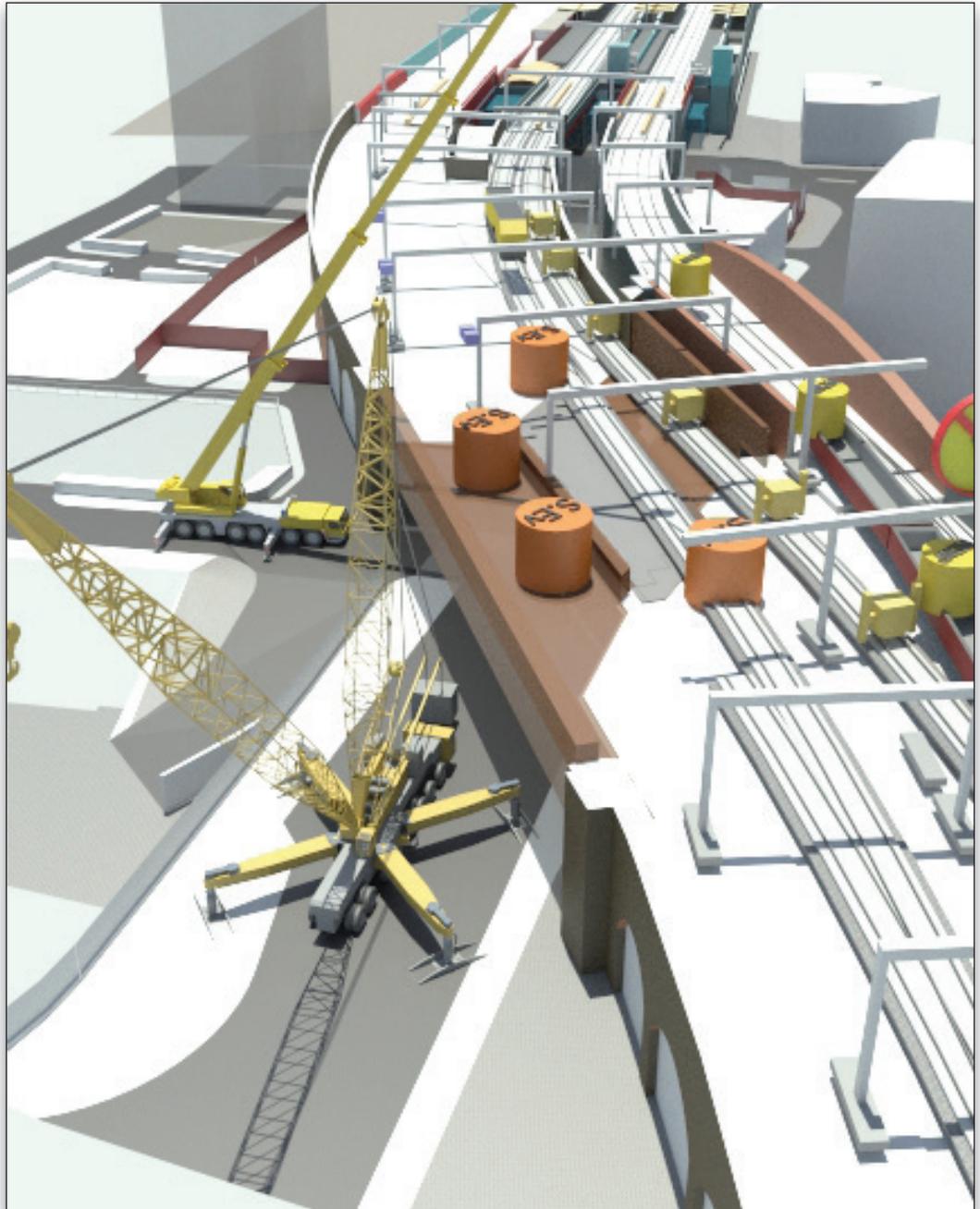
Identify schedule problems in advance, saving you and your team both time and money. Your data will be secure, up-to-date, and accessible from a range of devices based on roles and permissions.

Focus on Safety

Understand what you are building before you build it, to avoid all the potential risks involved. Ensure that the entire team is engaged by inviting the supply chain to participate.

Ensure Quality

Everyone performs at a higher level when they can review, communicate, and cooperate in a digital and interactive visual environment. Validate and optimize your project plan before you start on site.



SYNCHRO 4D augments construction projects with 4D digital information throughout the project's construction.