

# MicroStation®

The CAD Leader for  
Infrastructure Design



Bentley®

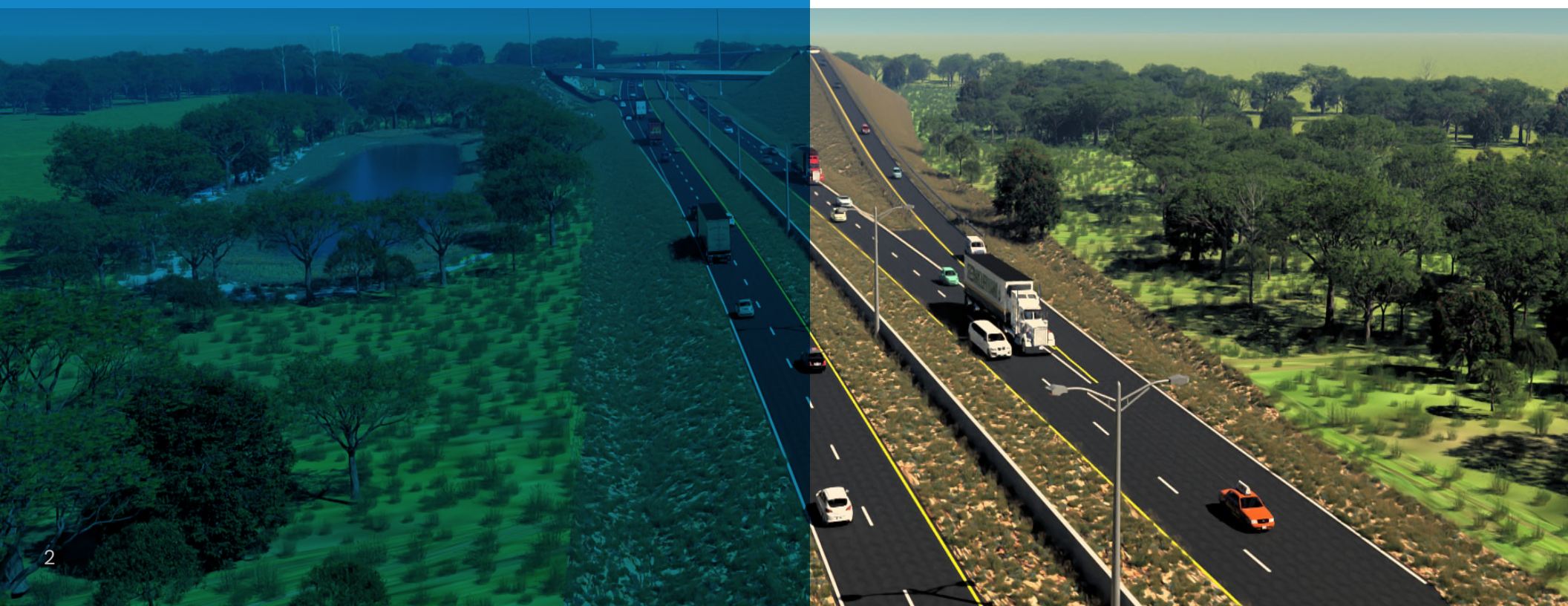


# WE GET IT!

Going digital is critical to ensure your projects are efficient, smart, and profitable. And that you have a competitive advantage in the market.

## **That's why we built MicroStation.**

The industry-leading 2D and 3D CAD software for creating fast, accurate, and reliable infrastructure designs, and construction-ready deliverables for projects of any scale – helping you save time, reduce costs and win more projects.







**YOU GOT  
THIS!**

- › Is it easy to get started with MicroStation?
- › Will this solution save me the tedious manual work?
- › Can I ensure accuracy across all design files each time I make a change?
- › Can I easily share files with other design and construction professionals?

**YES. TOTALLY. ABSOLUTELY. SURE.**

# INTRODUCING MICROSTATION

Designing the infrastructure of your community is a big job. Whether it's roads and bridges, water distribution systems, utility networks, or a single building you need a powerful digital solution that automates the process, leaving you time to do what you do best – finding creative solutions to your clients' unique challenges.

- > MicroStation is easy to use and master through a configurable environment with in-app learning, video tutorials, and extensive support that allows you to become an expert in no time.
- > MicroStation is geared towards small, mid-sized, and enterprise design teams and firms, who need to deliver 2D and 3D infrastructure design projects on time and on budget, even as complexities and scale increase.
- > Engineers, architects, and construction professionals use MicroStation to openly collaborate to deliver inspiring projects, utilizing the industry leading DGN file format.





# MICROSTATION: ONE TOOL FOR ALL DELIVERABLES



## DEVELOP BETTER DESIGNS, FASTER

Develop better designs with the ability to create geospatially enabled 2D and 3D drawings, develop hypermodels, analyze and visualize models, and automate common tasks.



## WORK ON DESIGNS OF ANY SIZE

Generate a complete 3D model and maintain design intent on projects of all sizes and complexities. Work collaboratively and share common files across multiple teams and disciplines.



## RELY ON TRUE, NATIVE, TIMELESS DGN

Global transportation agencies, AEC firms, and other owner-operators require DGN for their infrastructure projects. Eliminate time wasted and errors created when converting your designs from other file formats.



## BETTER INFORM TEAMS

Ensure that all your stakeholders are better informed with clearer communication of designs made possible through intelligent deliverables production capabilities, and full Digital Twin integration with both Synchronizing and referencing capabilities.



# DEVELOP **BETTER** **DESIGNS, FASTER**

Unlimited design freedom,  
including 2D and 3D

- › **DESIGN WITH REAL-WORLD CONTEXT** by integrating geospatial information from thousands of supported coordinate systems into your designs.
- › **DEVELOP DESIGNS** with a comprehensive set of mesh, solid, surface, and feature modeling tools.
- › **BUILD PARAMETRIC FUNCTIONAL COMPONENTS** with predefined variations to easily find and manage similar components.
- › **AUTOMATE DRAWING** sheets, models, visualizations, multi-discipline documentation sets, and embedded BIM data.
- › **MAINTAIN DESIGN INTENT** with constraint capabilities, layout and annotate drawing tools.
- › **SPEED DRAFTING** and annotate workflows with intelligent, interactive snapping and dynamic data entry.



# WORK ON DESIGNS OF ANY SIZE

Work efficiently and collaboratively – any size project, any data type

- › **WORK WITH HUGE DATA SETS**  
Easily handle the scale of data demanded by infrastructure projects. Generate efficient 2D and 3D drawings for any size data set.
- › **SHARE FILES ACROSS DISCIPLINES**  
Get support for 7x more file formats than other CAD software. Work with design information from others in real-time using live referencing of 2D and 3D for both DGN and DWG work modes.
- › **INTEGRATE STANDARD DATA TYPES**  
Incorporate legacy client data and a variety of file formats like DWG, SHP, and point-cloud data without the need for data conversions.



# RELY ON TRUE, NATIVE, TIMELESS DGN

The file format of choice  
for Infrastructure Design

- › **GET NATIVE SUPPORT FOR DGN**, the most stable and cross-generational CAD file format.
- › **MEET CLIENT STANDARDS** that require DGN for their infrastructure projects.
- › **ELIMINATE TIME WASTED** and errors created when converting your designs from DWG.
- › **NATIVELY UTILIZE HISTORIC DATA** needed to deliver your projects, no matter when it was created, even if it was in the 90s.





# BETTER INFORM TEAMS AND STAKEHOLDERS

Clearer communication  
of designs made possible  
through intelligent  
deliverables

- › **CREATE** animations
- › **CREATE** lifelike renderings
- › **GENERATE** intelligent documentation
- › **PUBLISH** iModels
- › **REVIEW** designs collaboratively
- › **MAINTAIN** and enforce CAD standards
- › **IDENTIFY AND RESOLVE** issues during a project's life cycle

# MICROSTATION: ONE TOOL FOR THE ENTIRE TEAM

## PRINCIPAL/ PROJECT MANAGER



Benefit from planning, design, visualization, analysis, and simulation capabilities in one application – 2D and 3D tools included. Flexible licensing and business models make it the smart choice.

- Enable your team to save time, reduce costs, and win more projects
- Improve collaboration across functional groups
- Rapidly explore more design alternatives with 3D model-based design, analysis, and simulation capabilities

## IT/CAD MANAGER



Standardize on a single, cost-effective application for planning, design, construction, and management, minimizing the complexity of administering multiple individual products.

- Save time spent deploying, managing, and supporting software
- Ensure proper project standards are followed in deliverables
- Improve productivity through Bentley Learn training, mentoring, and consulting

## ENGINEER/ DESIGNER



Work in a model-based design environment that enables the creation of fast, accurate, and reliable designs, and construction-ready deliverables for projects of any scale.

- Geospatial information and visualizations validate designs and communicate intent
- Integrate models from multiple disciplines to improve coordination
- Enjoy top performance with large scale data files



# HEAR WHAT MICROSTATION IS DOING FOR INDUSTRY LEADERS, LIKE YOU

## TRANSPORTATION



[Watch the customer video >](#)

“The software isn’t only viable for large organizations. We have completed hundreds of small-scale projects using MicroStation and other Bentley applications. I’ve recommended these solutions to other engineering firms, as they can be applied to the unique problems posed by each project, making the project much easier to manage, with a more efficient and profitable result.”

— John Cruikshank, President and CEO, JMC2

## BUILDING

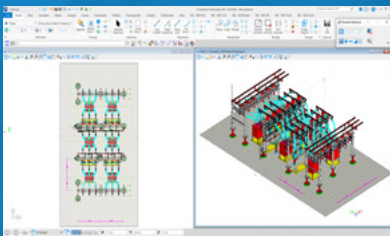


[Learn more about the story >](#)

“Overall, we would estimate that item types and reporting probably saves us around about 80 to 90% of time overall in producing area schedules and door schedules, etc., from projects. And as architects, we want to be spending our time designing and solving problems and not performing administration. Extracting information on an almost instantaneous basis, is a vast improvement in workflow.”

— Duncan Gammie, Associate Director, Lifschutz Davidson Sandilands

## UTILITIES



[Read the detailed case study >](#)

“We have achieved 60% less design time on some of our deliverables. Which translates to at least an 11% design time reduction overall on current capital projects. Results that are significant, and of course allow us to attain our critical milestones all the more.”

— Ken Allen, Designer, National Grid



# **MICROSTATION:** CAD SOFTWARE OF CHOICE FOR INFRASTRUCTURE DESIGN

**40+**

YEARS  
EXPERIENCE

**20%**

GAIN IN  
PRODUCTIVITY

**7x**

MORE FILE FORMATS  
SUPPORTED THAN  
OTHER CAD



# PARTNERSHIP FOR SUCCESS

Virtuosity, a wholly owned division of Bentley, is an eCommerce store that makes it easy for organizations to buy 12-month, practitioner-named product licenses at an affordable price and the training you need to be successful. We call this the Virtuoso Subscription, which provides access to our Expert Services and you can then choose from one-to-one mentoring by Bentley project experts, personalized training for your team, and on-demand learning.

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