



THE ONLY TRUE SITE  
DESIGN SOFTWARE

# OpenSite™ Designer

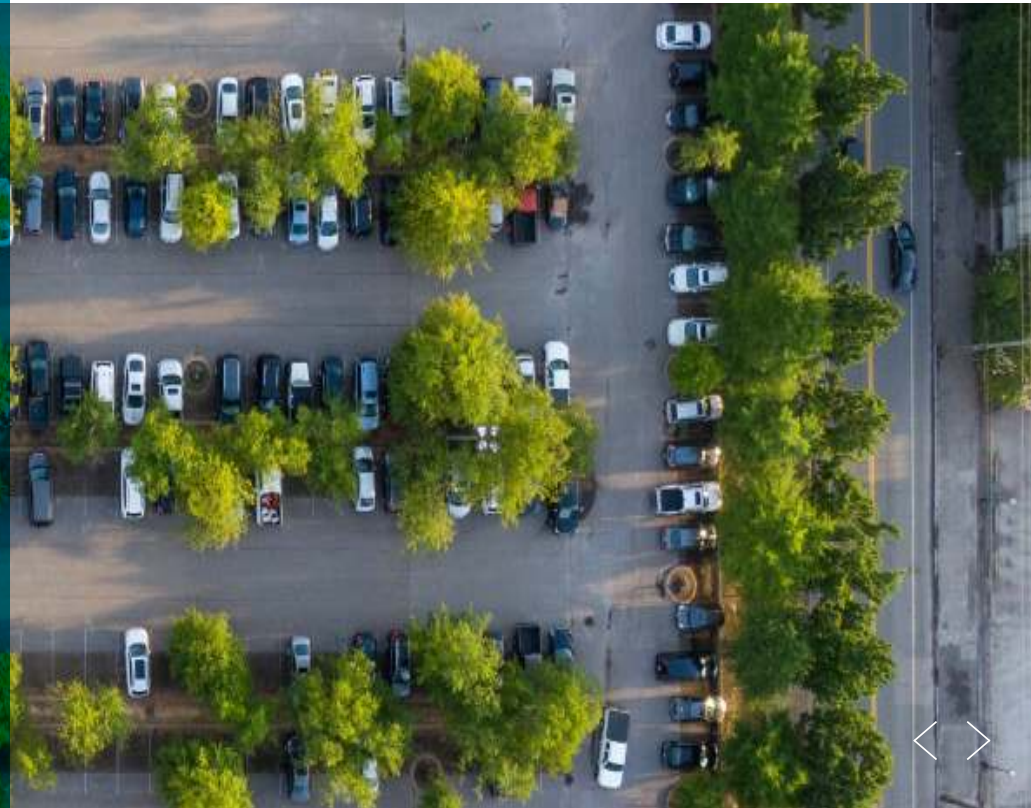
*NO COLLECTION. NO IMPOSTER.  
THE REAL DEAL.*



# AS ENGINEERS, WE GET IT!

**You need an application that makes your job easier, not harder.** Each day, you face an increase in demand for engineering accuracy, contract compliance, and the production of a variety of deliverables, all within short timeframes.

**That's why we built OpenSite.** It provides all aspects of site design in one application so you can easily meet project requirements on time, every time, regardless of change.







ENGINEERING  
IS COMPLICATED.

**YOUR SOFTWARE  
DOESN'T HAVE  
TO BE.**

- > Why does it have to be so manual and tedious?
- > How can I ensure accuracy across thousands of components every time there is a design change?
- > How do I know this is going to work with other team members on the project?
- > Why do I need multiple applications and data translations for one project?

**THERE IS A BETTER WAY...**





# ENTER OPENSITE

## IMPROVE PRODUCTIVITY 20%-30%

The land development industry is advancing quickly, and you need the right technology to meet demand and win new business.

### Keep up with OpenSite:

- > **One design application for rapid site modeling and analysis, earthwork optimization and quantification, and drainage and underground utility design.**
- > **Offers dynamic change management.**
- > **Provides an open modeling environment.**
- > **Enables automated project deliverables.**





# OPENSITE: THE ONLY TRUE SITE DESIGN SOFTWARE



## > DATA & DESIGN INTEGRATION

You don't work in a silo and neither should your software. From integrating existing real-world conditions to collaborating with other project partners, OpenSite makes it easy to work with different data types, disciplines, and distributed teams.



## > DETAILED SITE DESIGN

OpenSite does it all, from reality modeling, geotechnical, underground utilities, and stormwater drainage to terrain modeling, detailed drawing production, and visualization.



## > VISUALIZATION

Experience your designs in real time with constraint-driven templates, a context-sensitive intuitive interface, and dynamic 3D modeling. Visualize the design at any time and on demand within the modeling workflow.



## > 2D, 3D, & BEYOND

Whether you need to produce traditional 2D deliverables, advance to 3D modeling, support digital transformation, or all the above, OpenSite is your choice for site design.



# DATA & DESIGN INTEGRATION

From team-level, work-in-progress collaboration to project-level, multidiscipline coordination, OpenSite enables project managers, reviewers, site workers, and inspectors to view designs, perform virtual walkthroughs, query model information, and analyze embedded property data.

[WATCH VIDEO >>](#)

## > OPEN MODELING ENVIRONMENT

Project team members can incorporate data types from an array of disciplines, which means less manual work and fewer errors. Users benefit from full data and design transparency.

## > IMPORT EXISTING TERRAIN DATA

Our Topo Import feature allows users to download terrain data from Esri, USGS, and SRTM in seconds, providing the jump-start you need by using existing topography.

## > MANAGE DATA WITH EASE

OpenSite's flexibility offers team members the ability to organize project files and data as needed, further removing discipline and organization silos.

## > SHARE THE WEALTH OF DATA

OpenSite accommodates today's project needs and provides users with accurate information that benefits team members throughout the asset's lifecycle.





# DETAILED SITE DESIGN

Whether you need to produce traditional 2D deliverables or advance to 3D modeling, OpenSite is the single application you need. It can handle conceptual design through construction documentation for any site or land development project.

[WATCH VIDEO >>](#)

## > **START WITH REAL DATA**

Create accurate, georeferenced 3D models through seamless integration of reality data, including LiDAR, photogrammetry, point clouds, and reality meshes.

## > **LAYOUT AUTOMATION**

Automate layout and grading to analyze the feasibility of feature placement and configuration for commercial, industrial, and residential site development.

## > **GRADING OPTIMIZATION**

OpenSite's grading solver runs thousands of iterations based on designer-defined constraints for each site layout to optimize construction costs.

## > **CREATE, REUSE, AND SAVE TIME**

Create commonly used configurations that can maintain constraints and relationships. Store, access, and place elements at any time and watch your design automatically update.





# VISUALIZATION

OpenSite not only creates numerous site design alternatives in a fraction of the time competing software requires, but also produces the realistic and accurate visualizations of site design and land development projects.

[WATCH VIDEO >>](#)

## > DESIGN IN CONTEXT

Experience designs in real time with constraint-driven templates, dynamic 3D modeling, and a context-sensitive, intuitive interface.

## > REALISTIC PROJECT VISUALS

Virtually move through the 3D site model and visually inspect it for any design deficiencies or physical conflicts.

## > DETAILS MATTER

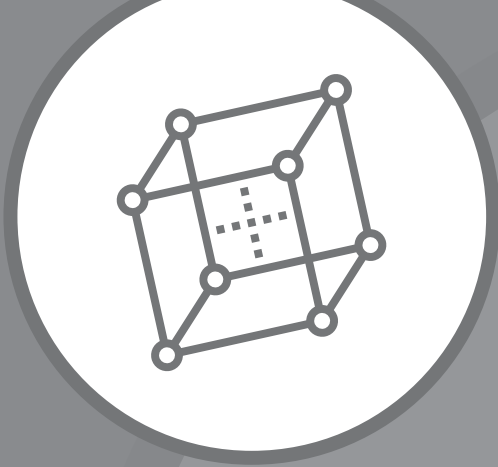
Use rendering features, such as color fill, material, and shading to improve your design at any phase and build assurance in project constructability.

## > ENHANCE COMMUNICATION

Create models, high-impact visuals, and animations to effectively communicate your design intent to stakeholders.







# 2D, 3D, & BEYOND

Whether it's 2D or 3D, plans or models, or digital or paper, OpenSite allows you to work in all these arenas simultaneously, leveraging information from one to help populate the other.

[WATCH VIDEO >>](#)

## > ACCELERATE APPROVALS

Dynamic change management and visualization capabilities give you the confidence to make any design change and get stakeholder buy-in.

## > MAINTAIN DESIGN INTENT

Easily maintain rules and relationships, as every design update will reflect the most recent and accurate representation of your project.

## > DO MORE WITH LESS

Drainage and utilities modeling and analysis no longer need to be performed in a separate application as a result of OpenSite's inherent OpenFlows capabilities.

## > MITIGATE RISK

Reduce errors, omissions, and changes during construction with a model-based project approach that enables an easy design, review, and approval process.



# OPENSITE DESIGNER

## CAPABILITIES AT A GLANCE

### SURVEY



- > Read/write standard raw survey formats
- > Survey data reduction
- > Feature coding for custom survey feature connectivity, display, and annotation
- > Adjustments: least squares, compass, crandall, and transit
- > Dynamic graphical and tabular editing of survey field book data
- > Terrain modeling
- > Export common data formats

### SITE



- > Reality data integration (point clouds, reality mesh, terrain data, imagery, geospatial information)
- > Surface creation, design, and analysis
- > Parcel layout
- > Grading
- > Horizontal and vertical alignments
- > Profiles and cross sections
- > Terrain modeling and analysis

### DRAINAGE & UTILITIES



- > Allocate and estimate stormwater loads
- > H&H modeling and analysis
- > Culvert design and analysis
- > Stormwater network design and analysis
- > Sanitary network design and analysis

### PLAN PRODUCTION & DOCUMENTATION



- > Plan, profile, and cross section sheet generation
- > Quantity and earthwork calculations
- > Construction documentation
- > BIM deliverables



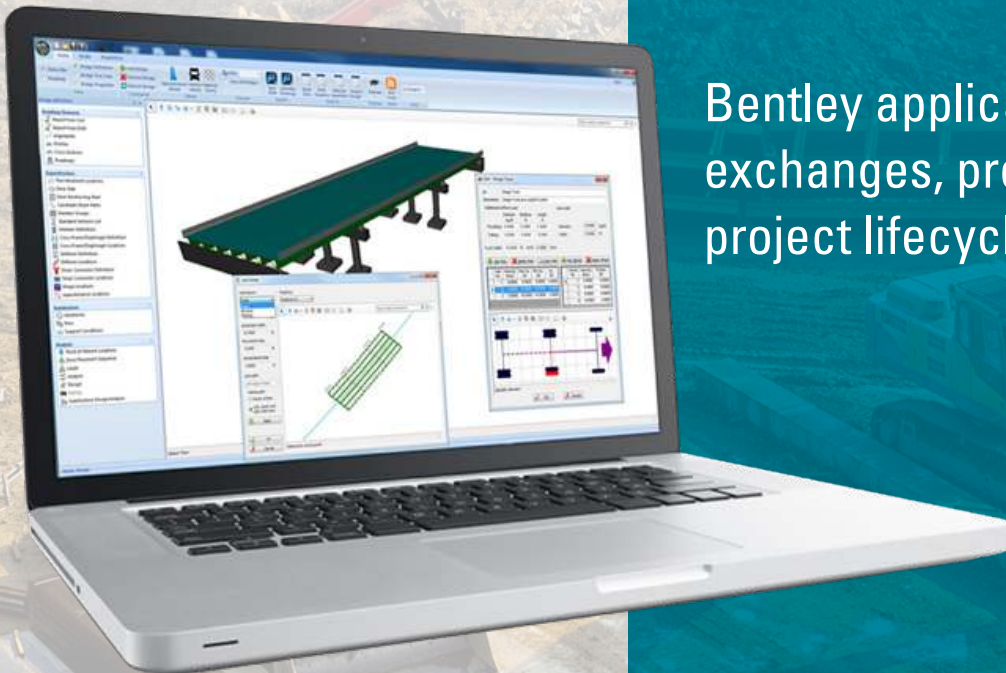
# INFRASTRUCTURE INDUSTRY TRENDS **WHY SWITCH NOW?**

Engineering firms and contractors are recognizing that over half of new business requests require digital project delivery.

3D modeling and visualization enable your clients to secure projects. In return, you attract new and recurring business.

Users say that BIM advancements influence their ability to offer services and increase their win rates for new work.

Bentley applications support multiple data exchanges, providing benefit across the project lifecycle.





# OPENSITE DESIGNER SOFTWARE OF CHOICE FOR SITE DESIGN

**15+**

YEARS  
EXPERIENCE

**20%**

TIME SAVED WITH  
GRADING SOLVER

**30%**

GAIN IN  
PRODUCTIVITY

**100%**

DESIGN WORK DONE  
IN OPENSITE

**ESRI**

DATA WITH  
TOPO IMPORT

**1**

TRUE SITE DESIGN  
APPLICATION





# OPENSITE DESIGNER: DO MORE FOR LESS

LEVERAGE **MicroStation's**  
CAD DESIGN CAPABILITIES



LEVERAGE **LumenRT's**  
VISUALIZATION CAPABILITIES



LEVERAGE **gINT's**  
GEOTECHNICAL DESIGN  
CAPABILITIES



LEVERAGE **OpenFlows'**  
STORMWATER MODELING  
CAPABILITIES



LEVERAGE **OpenRoads'**  
DRAINAGE AND UTILITIES  
DESIGN AND ANALYSIS  
CAPABILITIES



OPENSITE DESIGNER



# ADDITIONAL SOLUTIONS FOR SITE DESIGN PROJECT DELIVERY



## FOR PROJECT MANAGERS

*iTwin® Design Review*

You no longer need native desktop apps to share and review design files. iTwin Design Review is web/cloud-based and always current.

- > Run reports any time and view historical changes.
- > View civil quantities from within the tool.
- > One less deliverable to print.
- > Accessible to all team members.

## FOR BUILDING DESIGN

*OpenBuildings™ Designer*

Design, analyze, document, and visualize buildings of any size, form, and complexity.

- > Model and visualize structural elements.
- > Create floor plans, sections, elevations, and schedules for any architectural component.
- > Analyze building system performance with conceptual energy analysis.

## FOR COLLABORATION

*ProjectWise® 365*

A cloud-based connected data environment that allows you to easily manage, store, and share information.

- > Leverages Microsoft 365 technology.
- > Makes collaborative BIM accessible and affordable.
- > Eliminates paper-based workflows.
- > Includes third-party PDF review capabilities.





# PARTNERSHIP FOR SUCCESS

Your success goes beyond software. It is also dependent on doing business the way that best serves your organization. That is why we have a variety of subscription and license options as well as 24/7/365 support to ensure your software is up and running quickly and continuously.

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**VISIT US ONLINE**

**[www.bentley.com](http://www.bentley.com)**

**> SEE FOR YOURSELF THE POWER  
OF OPENSITE DESIGNER**

**Contact Us >**

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Advancing Infrastructure

