THE ONLY TRUE SITE DESIGN SOFTWARE
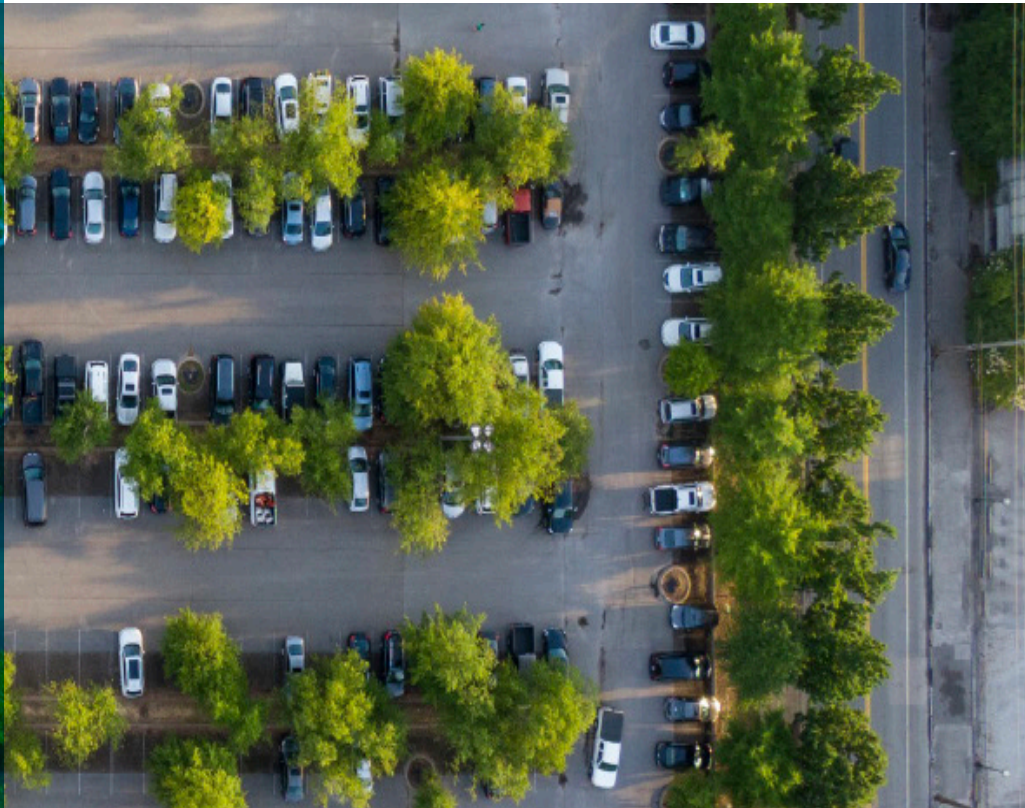
OpenSite™ Designer

NO COLLECTION. NO IMPOSTER. THE REAL DEAL.

virtuosity
A BENTLEY COMPANY

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.**

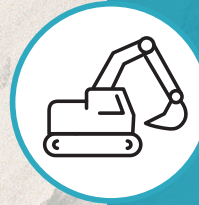- **Enables automated project deliverables.**

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.
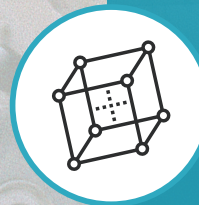
> DETAILED SITE DESIGN

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.
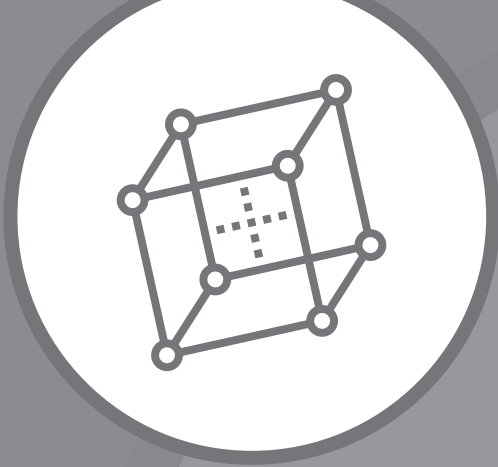
> DETAILS MATTER

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
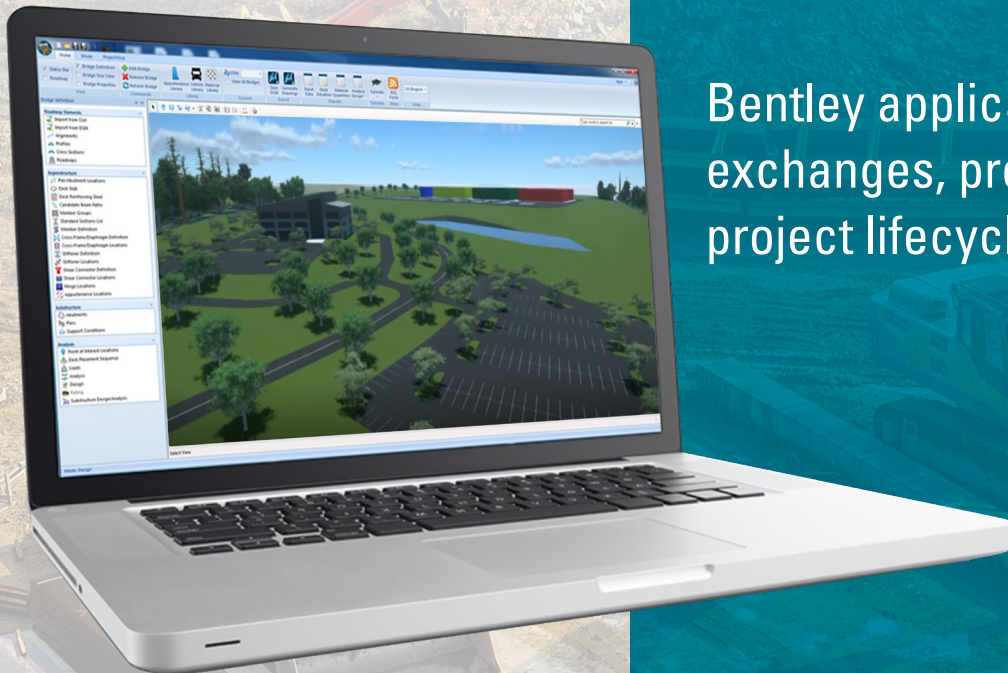
> Construction documentation

> 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

OPENSITE DESIGNER

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

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

Buy OpenSite Designer at Virtuosity

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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