

Bentley[®]
Advancing Infrastructure



OpenCities™ Planner

3D Visualization Software for Urban Planning

Design, Visualize, and Communicate

OpenCities Planner is a cloud-based service that enables visualization of 2D, 3D, and GIS data in a 3D world. You can design, visualize, and communicate projects from large scale city developments to detailed architectural designs. All you need is a web browser as OpenCities Planner is completely web based, and plug-in free.

OpenCities Planner capabilities combined with Bentley's reality modeling offerings makes city-scale digital twins broadly accessible. Synchronizing reality and 'virtuality,' OpenCities Planner offers the perfect web solution to enable every city government in going digital.

Scalable for all organization types from individual planners, architects, GIS engineers to city governments and larger organizations.

Visualize Everything

The powerful 3D rendering engine supports streaming massive 3D worlds online. You can visualize projects spanning entire cities down to street level. Entire countries or even the whole world can be visualized in 3D. Terrain models, reality meshes and even semantic 3D city models such as CityGML can all be used in combination.

Sketch, Analyze, and Export from 3D Cities

Simple-to-use 3D modeling and shadow analysis enables you to quickly test and visualize planning options. Drag an object from the 3D library to the map and customize the dimensions and properties. Export as 3D if needed and continue detailed design in a third-party CAD or BIM application.

Import CAD, GIS, and Web Services

Import detailed 3D models and place them in the 3D world. Add images, vector data, and documents to communicate your project. Connect with WMS to add GIS layers to the presentation.

Share Projects and Crowdsource Ideas

Invite team members or publish a direct link for public access with just a few clicks, which is ideal for fast-and-easy sharing with citizens or stakeholders. You control content access based on user roles.



Gain the ability to stream massive terrain and 3D city models combined with overlay data.



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System Requirements

Recommended system for Editing Users

CPU:

i5 or i7 – 4 core 2.5 GHz

RAM:

8-16 GB

Graphics Card:

GTX970 or better

Operating System:

Windows 10

Browser:

Chrome/Edge/Firefox

Recommended system for Viewing Users

CPU:

i5

RAM:

8 GB

Graphics Card:

Intel HD 5000

Operating System:

Windows 7, MacOSX

Browser:

Chrome/Edge/Firefox/Safari

iOS:

Device:

iPad AIR2 or iPhone6s+

Operating System:

iOS9 or newer

Browser:

Safari

Android:

Operating System:

Android Lollipop or newer

Browser:

Chrome

OpenCities Planner At-A-Glance

Content

Massive city models

- Visualize entire cities, countries, or the whole world in 3D in LOD1, LOD2, LOD3, or LOD4 quality
- Streaming technology with quality settings to suit any device

Sketch in 3D

- Simple 3D volumes, roof structures, and generic objects like trees
- Customize object position, dimensions, color, and opacity

Import 3D CAD

- Add georeferenced KMZ and Collada exported from MicroStation, SketchUp, 3DStudio, Maya, AutoCAD, FME, and more
- Supports materials with color, textures, and opacity

Vector data

- Visualize Shape files textured on terrain or extrude to 3D volumes
- Display selected attributes on click

WMS service

- Supports OGC WMS specification 1.1 and newer
- Supports GetFeatureInfo on click with results rendering as plain text, HTML, or XML

Terra images

- Supported file formats: PNG, JPG, and GIF
- Automatic georeferencing with a world file or manual

Points of interest

- Set position, icon, or color, and an optional label
- Show a Details Window on click with additional content or embedded web content

Customize everything

- Upload logos in SVG or PNG format and pick icons from the icon library or upload your own
- Customize interface colors, labels, and font settings

Analysis

Shadow Analysis

- Visualize and compare geo accurate shadow impacts of various construction options
- Choose the time and date and the shadows update in real time or export PDF reports

Underground visualization

- Visualize tunnels, parking garages, and structures under the terrain
- Navigate through the terrain and into 3D structures belowground

Virtual demolition

- Hide buildings in a 3D city model dataset with a click and show before-and-after scenarios
- Draw a polygon or use shape files and set a height to flatten the terrain

Export 3D

- Export an area in georeferenced KMZ or Collada format
- Import exported data in MicroStation, SketchUp, AutoCAD, Maya, 3DStudio, and more

Sharing

Team sharing

- Invite internal team members or external consultants for collaboration and viewing users for limited access
- Set content access in your project to control what administrators, editors, and viewers can see

Instant publishing

- Click Publish to create your own easy-to-remember web address
- Publish as 3D and 360°-panorama images to reach as many devices as possible

Idea crowdsourcing

- Build a form using a simple drag-and-drop interface with the Form Builder and customize it to your needs
- Submissions can be published instantly or moderated by an administrator

Find out about Bentley at: www.bentley.com

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Product	Capability	Project Type
OpenCities Planner One	<ul style="list-style-type: none"> • 1 Pro user • Unlimited viewing members • 3 published projects, 5,000 visits/month 	<ul style="list-style-type: none"> • 500 MB storage • OSM 3D, subscription background • Email support <p>Individual planners, architects, GIS engineers</p>
OpenCities Planner Team	<ul style="list-style-type: none"> • 3 Pro users • Unlimited viewing members • 10 published projects, 10,000 visits/month • 2 GB storage 	<ul style="list-style-type: none"> • OSM 3D and subscription background • Email support • Dialogue features <p>Smaller organizations and teams</p>
OpenCities Planner Enterprise	<ul style="list-style-type: none"> • 3 Pro users* • Unlimited viewing members • 20 published projects*, 10,000 visits* • 150 GB storage* 	<ul style="list-style-type: none"> • OSM 3D, subscription and private background* • Email and phone support • Dialogue features • Offline application** <p>Scalable for cities and larger organizations</p>

* Upgrade possible **Cost per license

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