PRODUCT DATA SHEET

Bentley
Advancing Infrastructure

OpenCities™ Planner

Powerful Communication for Urban Development and Infrastructure Projects

Easily Share Information to the Web, Mobile, and Showroom Displays

Improve communication in infrastructure and urban development projects with OpenCities Planner. Powerful 3D rendering and streaming technology securely provides 3D project scenes of any size to web browsers and mobile devices. Easy access to updated project information supports better decisions and shorter feedback loops with a broad reach to stakeholders and citizens. OpenCities Planner is scalable for all from individual users and project teams to entire city governments and larger organizations. The application is cloud-based on Microsoft Azure.

Detailed Views of Your 3D Data

Advanced data configuration features support setup, maintenance, and the ability to combine unlimited-sized data sets from files, web services, or databases to make them available within OpenCities Planner. Supported data includes reality mesh, semantic building models (for example, CityGML) imagery, and Digital Terrain Model.

Get Started Quickly with this Easy-to-use Application

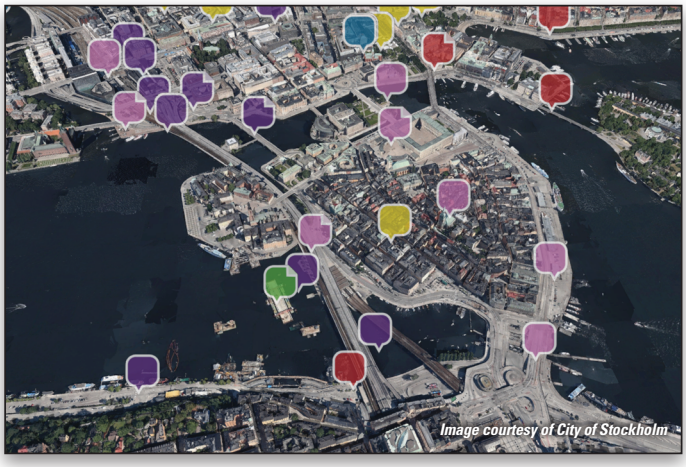
A subscription and web browser are all that is required. The solution design is intuitive, with graphical menus and built-in documentation to help you get started after a short introduction. Easy-to-use tools enable you to quickly create scenes to visualize the project or evaluate planning options. Use libraries of 3D geometries, drag design models, or incorporate geodata into the scene. Add images, vector data, and documents to communicate your project. Connect with WMS to add GIS layers to the presentation. Export 3D for detailed design in third-party applications.

Customize the End-user Experience

Sharing options provide multiple information channels with the interactive 3D or the 360-panorama mode. Multiple customization features allow adoption to your preferred graphical profile. For the project office or for exhibition monitors, Showroom configuration provides the best 3D performance and visual quality, with support for virtual reality. Generate high-resolution 360-degree images or videos in OpenCities Planner for online publishing or as part of your report.

Engagement and Communication

You are in control. With just a few clicks, publish new projects and updates to specifically invited team members or a direct link for public access. The built-in form editor is designed for creating public surveys or interaction using the 3D scene as background. Fast-and-easy sharing with the public and stakeholders enables public consultation, surveys, events, or project issue tracking. You can manage content access based on user roles.



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

OpenCities Planner offers the perfect web solution to benefit every city government in their going digital strategy.

System Requirements

Recommended system for creator users

RAM:
8-16 GB

Graphics Card:
GTX970 or better

Operating System:
Windows 10

Browser:
Chrome/Edge/Firefox

Minimum system for viewing and member users

CPU:
i5

RAM:
8 GB

Graphics Card:
Intel HD 5000

Operating System:
Windows 7, MacOSX

Browser:
Chrome/Edge/Firefox/Safari

iOS:

Device:
iPad 5th Gen or iPhone7

Operating System:
iOS11 or newer

Browser:
Safari

Android:

Operating System:
Android Oreo or newer

Browser:
Chrome

Find out about Bentley at: www.bentley.com

Contact Bentley
1-800-BENTLEY (1-800-236-8539)
Outside the US +1 610-458-5000

Global Office Listings
www.bentley.com/contact

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OpenCities Planner At-A-Glance

Content

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

Sketch in 3D
- Basic sets of 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 with one 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 to see shadow study in real time, or export shadow study reports in .PDF

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

Virtual demolition
- Hide buildings in a 3D city model dataset with a click of your mouse, and display 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 invite 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

OpenCities Planner Subscription

Required basic services including data management and editor functions

Base edition	Supports uploading and configuring reality models, DTM, aerial imagery, 3D object city models as files	Up to 200 gigabytes hosted data and 2,000 gigabytes download annual data transfer capacity. Additional capacity as option
Premium edition	Support for connected datasets from database and data feeds. Option: Hosted 3DCityDB database	Up to 200 gigabytes hosted data and 2,000 gigabytes download annual data transfer capacity. Additional capacity as option

Named Users

Member Visa	Invited user with viewing rights
Creator Visa	Access to create, manage, and publish content
Exhibitor Visa	Extended Creator Visa for use in showroom configuration

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