

Autodesk® Infrastructure Modeler

Explore tomorrow's infrastructure today.



Fictional waterfront park development with proposed bike lanes, pathways and planting areas created in Autodesk® Infrastructure Modeler software. This was then combined with additional data to create a near-photorealistic rendering of a city using Autodesk® 3ds Max® Design software.

Autodesk®

Create. Evaluate. Communicate.



Transportation Corridor Planning

Autodesk Infrastructure Modeler being used to sketch and study proposed road improvement options in the context of the existing environment. Image courtesy of Parsons Brinckerhoff.

Autodesk Infrastructure Modeler is ideal for conceptualizing roadway designs from scratch. It is the quickest and easiest tool we have found for early design studies.

— Mark Kauffman
Technical Lead
Parsons Brinckerhoff

Explore what could be in the context of what is with Autodesk Infrastructure Modeler conceptual design software.

Conceptual Design for Infrastructure

Autodesk® Infrastructure Modeler conceptual design software helps project engineers, and GIS and planning professionals quickly create, evaluate, and communicate compelling infrastructure project proposals in the context of the existing natural and built environment. Use Infrastructure Modeler to drive faster stakeholder buy-in and more confident decision making with visually rich proposals of your next transportation, land, water, or energy project.

Create: Quickly Build Models of Existing Infrastructure

With Autodesk Infrastructure Modeler, you can streamline your conceptual design workflows by building 3D models of existing infrastructure from readily available GIS, Building Information Modeling (BIM), CAD, and raster data. Quickly transform 2D road centerlines, building footprints, or pipe centerlines into 3D models. Whether you are planning a city block, an entire region, or a new long-distance transportation corridor, Autodesk Infrastructure Modeler can help you with the task.

You can further enhance the accuracy of your infrastructure models by incorporating detailed designs of existing buildings and infrastructure from AutoCAD® Civil 3D® software, the Autodesk® Revit® family of products, and other modeling software.

You can also stylize your infrastructure models to more realistically depict the local environment. With Infrastructure Modeler, you can quickly and easily create models of the existing natural and built environment, providing a visual foundation for your conceptual design proposals.

Evaluate: Easily Develop and Compare Multiple Proposals

The most powerful capability of Autodesk Infrastructure Modeler is the ability to explore future infrastructure in the context of today's environment.

Using simple yet powerful industry-specific sketching tools, you can rapidly lay out, model, and visualize proposed roads and land and water features in the context of existing conditions. You can even overlay GIS Data, such as property boundaries or protected forest lands, to help inform conceptual design decisions. Study transportation corridors with the easy-to-use road tool that automatically grades the terrain. Sketch roads, buildings, and land and water features for urban planning studies. Import water or energy system designs from GIS, CAD, and BIM software to facilitate utility master planning studies. Whatever conceptual design you can imagine, Infrastructure Modeler can help bring it to life.

With Infrastructure Modeler, you can evaluate multiple conceptual design alternatives with robust proposal management tools that enable you to quickly switch between alternatives to see their impact on the surrounding environment. Once the winning design alternative is selected, you can import data from Infrastructure Modeler into Civil 3D or AutoCAD® Map 3D® software to continue with detailed design without having to start from scratch. This integrated approach reduces the need for redundant and costly rework, saving you time and money.

Communicate: Receive Faster Stakeholder Approval

With Autodesk Infrastructure Modeler, you can put visually rich, easy-to-understand conceptual design proposals into the hands of all your stakeholders, regardless of their technical expertise.

Use intuitive navigation tools to freely explore proposed infrastructure in the context of existing surroundings. Easily shift between design proposals and evaluate alternatives from any viewpoint, which provides valuable visibility into design intent. Facilitate faster decision making by interactively editing designs to incorporate stakeholder feedback. And capture still images or videos for easy sharing of project proposals.

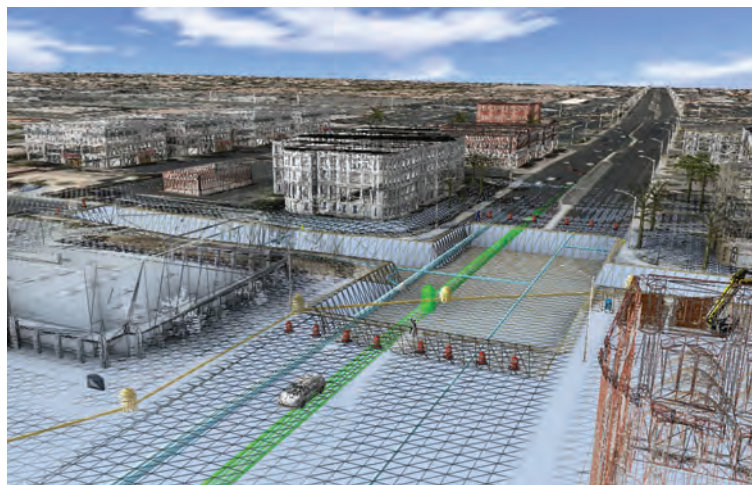
Whether you are trying to win more work or gain public support for project funding, Infrastructure Modeler can help you to more effectively communicate design intent to stakeholders for greater understanding of infrastructure proposals and faster decision making.

For more information, visit www.autodesk.com/infrastructure-modeler.



Urban Planning

Autodesk Infrastructure Modeler being used to study proposed land use for a new sports and office park complex. Proposed infrastructure created with Infrastructure Modeler sketching tools and imported building models. Image courtesy of VTN Consulting.



Underground Utility Planning

Autodesk Infrastructure Modeler being used to transform 2D GIS utility data into 3D representations for studying system expansions and upgrades. Data courtesy VTN Consulting.

With Autodesk Infrastructure Modeler, we were able to create a project proposal in only two hours. That same process would have taken us two weeks or more using traditional practices.

—Keith Warren
Virtual Design Technology Manager
VTN Consulting

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