Top 5 Reasons Utilities Need AutoCAD Map 3D

The Power of AutoCAD Map 3D

AutoCAD Map 3D® software is a leading engineering platform for creating and managing spatial data in electric, gas, water, and wastewater utilities. Using open-source Feature Data Object (FDO) technology, AutoCAD Map 3D provides direct access to the leading data formats used in design and GIS, and enables the use of AutoCAD® software tools for creating and maintaining maps, network layouts, facility information, and more.

Bridging the gap between CAD and GIS, AutoCAD Map 3D allows engineering and GIS professionals to work with the same data, and enables design processes to integrate geospatial functions in a single environment for more efficient workflows. This results in better designs, increased productivity, and better data quality.

Now Is the Time

AutoCAD Map 3D can help you improve your infrastructure design process. It provides innovative engineering design and drafting tools that are easy to use for the AutoCAD user. Discover why so many engineers, designers, and drafters are switching to AutoCAD Map 3D.

For more information about AutoCAD Map 3D, go to **www.autodesk.com/map3d**.

To locate the reseller nearest you, visit **www.autodesk.com/reseller**.

Increasingly, utilities are facing pressure to do more with less, while maintaining high reliability and customer service. Having to cope with aging assets, capital constraints, and a rising demand for energy, utilities require solutions that improve productivity and cost efficiencies. AutoCAD Map 3D software is an engineering application built on industry-leading AutoCAD software to bridge the gap between design and GIS. With Map 3D, design processes can integrate geospatial functions in a single environment for more efficient workflows, and design information can be used across the utility asset lifecycle, helping to increase operational efficiency.

1 Better Utilize Your CAD-Trained Workforce

Built on the AutoCAD platform, AutoCAD Map 3D lets you use AutoCAD tools to precisely create and edit maps, network layouts, schematics, and more. Use your CAD-trained workforce to quickly train new employees and to reduce backlogs, using one of the world's leading CAD tools.

RESULT: Save on training costs while meeting aggressive productivity requirements by using your existing CAD-trained workforce.
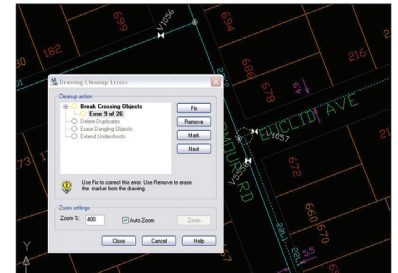
2 Give Engineers Direct Access to the Data They Need

With AutoCAD Map 3D, engineers and designers can directly access a broad variety of spatial data to create base maps—without waiting for the GIS department to convert the data. Easily integrate data collected in the field via survey and GPS devices to accurately update drawings, maps, and databases. AutoCAD Map 3D interoperates with major design and GIS software so you can read, write, and convert data between most standard formats, including SHP, DGN, and raster data.

RESULT: Improved accuracy and efficiencies during the planning and design phases of projects, as CAD and GIS professionals can work together on common datasets, and enabling CAD users to access and edit spatial information in a familiar AutoCAD environment reduces the need for GIS teams to perform mundane data conversion tasks.
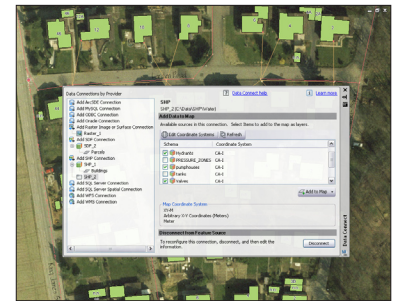
3 Improve Decisions with Powerful Analysis and Visualization Tools

Visualize and evaluate up-to-date cadastral, topographic, environmental, image, and tabular data in a variety of formats. Use mapping and analysis functions to easily create stylized maps that highlight specific features, such as service areas, zoning districts, land usage, pipe and cable installation dates, diameters, and more.

RESULT: Quickly create designs, maps, plans, and reports that support better infrastructure design and maintenance decisions.

4 Support Design and As-Built Data Flow to GIS, Asset Management, and Other Applications

Prepare data for use by back-end applications such as GIS, load modeling, outage management, or mobile dispatch and field systems. Define and apply data standardization by classifying objects in drawings according to the real-world features they represent, using industry objects with corresponding real-world attributes and a set of preconfigured industry symbols. Improve data accuracy to downstream systems by automating the correction of common drafting and digitizing errors.
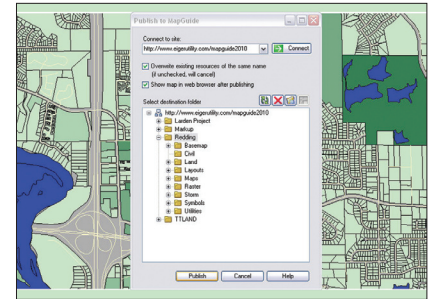
RESULT: Establish standards and improve the consistency of data throughout drawings and maps so design data can be more effectively understood and used throughout the organization.
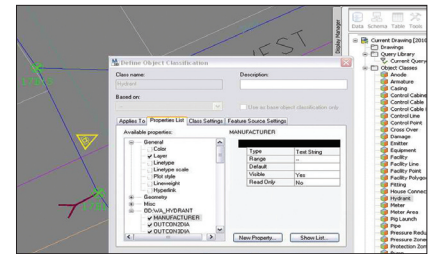
5 Improve Information Sharing Between Engineering and Other Stakeholders

Distribute your maps and designs in different ways, according to the project's needs. Create drawings, designs, and maps and publish them to the Internet quickly using Autodesk MapGuide® Enterprise software, or distribute them as individual georeferenced DWF™ files, multisheet DWF map books, or paper plots. Using free* Autodesk® Design Review software, team members in the field can digitally review, measure, mark up, and comment on 2D and 3D designs, plans, and maps while protecting your intellectual property.

RESULT: Help improve productivity by offering teams throughout your organization—including your mobile field force—access to the latest information.