

# Top 10 Reasons to Move from AutoCAD to AutoCAD Map 3D 2010

## The Power of AutoCAD Map 3D

AutoCAD® Map 3D software is a leading engineering platform for creating and managing spatial data. 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 maintaining a broad variety of spatial information. Bridging the gap between CAD and GIS, AutoCAD Map 3D makes it possible for 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. The results are better designs, increased productivity, and better data quality.

## Now Is the Time

Take a look and discover how AutoCAD Map 3D can help you improve your infrastructure design process. The software provides innovative engineering design and drafting tools that are easy to use for the AutoCAD user.

For more information about AutoCAD Map 3D, go to [www.autodesk.com/map3d](http://www.autodesk.com/map3d).

To locate the reseller nearest you, visit [www.autodesk.com/reseller](http://www.autodesk.com/reseller).

Discover why so many engineers, designers, and drafters are switching to AutoCAD Map 3D

### 1 Give Designs Real-World Context

Work with more than 4,000 real-world coordinate systems, or define your own custom coordinate system. Perform coordinate transformations and use tools such as Transform, Rubbersheeting, and Track Coordinates to accurately georeference your AutoCAD design data. Then combine your CAD design information with geospatial vector data and satellite imagery, or integrate your CAD data with your organization's GIS.

*RESULT: Your design data has real-world context, enabling you to quickly integrate data from a variety of sources in order to create accurate drawings, designs, and maps that can be used by field personnel, other departments, and other geospatial software applications.*

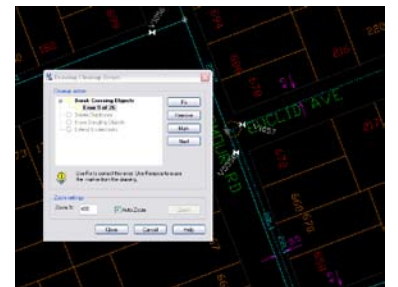
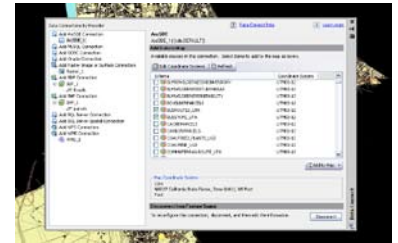


### 2 Directly Access and Exchange Data

Access and exchange the leading data formats used in design and GIS—no matter how the data is stored. Access road, cadastral, topographic, and environmental data in the most commonly used formats. Integrate data collected in the field via survey and GPS devices and directly access and edit vector data. Access raster imagery such as aerial and satellite photography and connect to web mapping services and web feature services to take advantage of data sources publicly available on the Internet. AutoCAD Map 3D interoperates with all major design and GIS software, so you can read, write, and convert data between standard formats, including

- Arc/Info® coverages
- ASCII
- DWG™
- Generalized Markup Language (GML 3.1.1)
- LandXML
- Micro Station® DGN (V7 and V8)
- MrSID® and ECW (read-only)
- MapInfo MIF/MID™
- MapInfo TAB
- Ordnance Survey MasterMap (DNF) (GML2, read-only)
- Oracle®
- SDF
- SHP, Eoo and ArcSDE® from ESRI
- Spatial Data Transfer Standard (SDTS, read-only)
- Vector Product Format (VPF, read-only)

*RESULT: Work in hybrid IT environments with existing CAD and GIS systems and data by enabling CAD users to access and edit spatial information in a familiar CAD environment. Combine engineering and GIS data for better decision making and results in more efficient business processes across departments and job functions.*



### 3 Create Cleaner, More Accurate Designs and Data

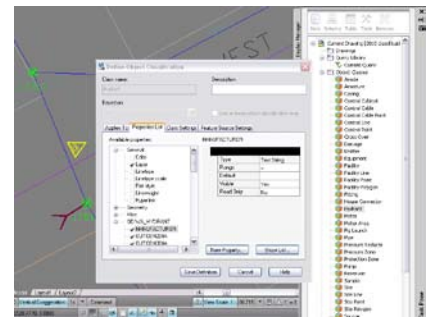
There's no need to waste time on inaccurate drawings or poorly digitized data. Automate the correction of common drafting and digitizing errors using powerful Drawing Cleanup tools. Delete duplicates, including text objects; correct undershoots, dangling objects, and more. Help ensure that GIS or mapping systems have accurate data by minimizing duplication and incorrect information.

*RESULT: Help ensure that your design information is free of common errors, supporting data accuracy throughout the design, build, operate, and maintenance lifecycle.*

## 4 Establish Standards and Integrate Inconsistent Data

Organize objects in your drawing by the real-world features that they represent, such as roads, parcels, cables, or pipes. When you create an object using Object Classification, it automatically takes properties and values from its object class, maintaining consistency and establishing standards in your drawing. Industry-specific toolkits that can help streamline the classification process for drafters, engineers, and designers, who are working on water, wastewater, and electric system networks, are available to Autodesk® Subscription customers.

*RESULT: Improve productivity and drafting efficiency for both new and experienced staff while maintaining data quality during the data creation and capture phases of a project.*



## 5 Use Powerful Mapping, Analysis, and Visualization Tools

When you need to create maps or visualize and analyze data in a clear, effective way, AutoCAD Map 3D is your best solution. Easily create stylized maps that highlight specific features, such as service areas, zoning districts, land usage, pipe and cable installation dates and diameters, and more. Create legends, and use transparency to blend data and call out details with attribute-driven labels. Analysis tools enable you to answer questions and make decisions about your data. Link information in vector and tabular formats together, perform data queries, create thematic maps, build topologies, create reports, and perform buffer, tracing, and overlay analysis, and more. Visualize large-scale topographic information, including digital elevation models and ESRI GRID files, and analyze them based on elevation, slope, or aspect. Create contours and perform sunlight studies with hillshading. Use draping functionality to combine topography data with aerial photographs and vector data for stunning, revealing 3D renderings that can be published to 3D DWF™ files.

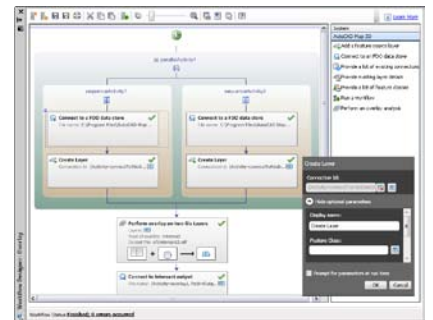
*RESULT: Support better decision making and produce more professional designs, maps, plans, proposals, and reports that communicate your design intent quickly and effectively.*



## 6 Tap into Sophisticated Database Features

AutoCAD Map 3D software provides open, standards-based database support. Easily join CAD objects to commonly used databases such as Microsoft® Office Access, and store CAD and geospatial data in popular relational database management systems including Oracle, Microsoft SQL Server®, and MySQL® without expensive middleware. You can also connect to ESRI ArcSDE-managed databases.

*RESULT: Take advantage of information that resides in databases to easily combine graphical design and geospatial data with tabular information in one view. Efficiently support planning and infrastructure asset management activities by searching, filtering, analyzing, and editing spatial and nonspatial information.*



## 7 Streamline Tasks with Workflow Automation

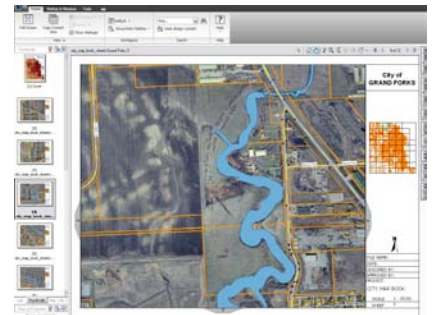
Along with Windows® Workflow Foundation, AutoCAD Map 3D makes it easy to automate repetitive tasks using a new and powerful workflow framework and user interface. With this framework, you can build, save, and share simple and complex workflows using a visual editor. Workflows can include logic and initiate calls to other workflows—all with a single mouse click—improving efficiency and consistency in results.

*RESULT: Increase productivity by automating common repetitive tasks and help ensure that operations across the organization are standardized.*

## 8 Find the Right Information and Work Simultaneously

The days of single-user drawing and data access are over. Using DWG query functionality, multiple users can access, search, and edit the same sets of drawing files or base maps simultaneously. This efficient and reliable way of working collaboratively with DWG-based information reduces the need for version control and minimizes time spent waiting for data.

*RESULT: Search across hundreds of DWG files to find the right project information for the task, and increase productivity by enabling multiple users to work simultaneously while sharing design data.*



## 9 Maintain Investments in Spatial Data with Metadata

Design and geospatial data are among your organization's most valuable assets. Maintain your investment in spatial data with tools to create and edit metadata. These tools help you call out the who, what, when, where, why, and how of your spatial information and publish it in standard formats, including ISO 19115 and 19139 and Federal Geographic Data Committee (FGDC).

*RESULT: Organize and maintain your organization's investment in spatial data and help support multidepartment and interdisciplinary usage. Provide colleagues, contractors, and regulatory agencies the contextual information they require.*

## 10 Easily Distribute Maps and Design Data

Distribute your geospatial data, maps, and designs in ways that meet your organization'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.

*RESULT: Help ensure that teams throughout your organization, including mobile field force, have the latest information. Improve communication with contractors, clients, and customers by more securely providing them the information they require while saving printing costs and valuable time.*