

What could you do
with a
50%
gain in productivity?

autodesk[®]

Solutions for Civil Engineering and Construction



From Start to Finish, Efficiently and Accurately

Civil engineering and construction projects are complex. From initial concept to construction, they require many tasks and many contributors, and you can always expect tight deadlines, ongoing changes, and budget constraints. The Autodesk® solutions for civil engineering provide cost-effective combinations of technology and services for planning, surveying, design, construction, and management. With our civil engineering solutions, you'll make better decisions, improve client care, and increase profitability.

Complete Functionality

Autodesk civil engineering solutions provide specialized software and services for every task in the project lifecycle. You can survey land, create plans, capture and integrate design and spatial data, design new facilities, distribute plans and designs, and manage existing infrastructure. With our solutions, you choose the software and services that fit your specific needs and budget. Our goal is to offer a complete solution that allows you to provide the right data, to the right people, at the right time.

Accuracy and Reliability

Autodesk has a 20-year track record of providing dependable and innovative technology for civil engineers. Today our software is based on a single project model, so you can enter data once and then build on it, rather than strip it

down to use it in another system. As you make design changes, the modifications are based on your preset design criteria. And with LandXML and DWF™ (Design Web Format™) functionality supported throughout, you get standard data exchange formats for multiple applications.

Integration Equals Productivity

Because all the CAD, civil engineering, and GIS technology works together, our civil engineering solutions help you work and deliver projects faster, with better results—and fewer data integration issues. Plus the software models the real-world environment, so you can see designs in action and create and review different what-if scenarios quickly.

Depending on the task, using Autodesk solutions can result in 50 percent or more gains in productivity. That translates to a better bottom line for our client, which is something that we are serious about delivering.

—Mike Carris
Design Systems
Specialist
Timmons Group
Virginia, USA

▶ *We can produce a grid-based sounding plan in a fraction of the time previously required.*

— Bruce Cairn
Burnie Port Corporation
Tasmania, Australia

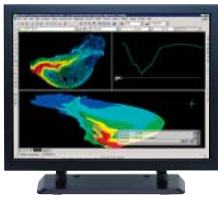
▶ *We bought a solution that worked. We bought the market leader we felt we could trust.*

— Simon Stanley
Design Engineer
Jersey Public Services
Department
Jersey, United Kingdom



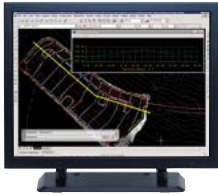
Tools for the Complete Project Lifecycle

Gain efficiencies throughout your projects. The Autodesk civil engineering solutions have technology and services to help you develop ideas, capture critical data, combine existing data or data in other formats, and complete design and construction work faster and more profitably.



Analysis, Survey, Design, and Drafting

From initial site and land planning to field survey, design, and construction, Autodesk solutions for civil engineering provide features and functions for every task. You can generate line work and base maps from field data in the AutoCAD® environment. You can also automatically download to and from most industry-standard data collectors, survey instruments, and GPS receivers, including products from Trimble Navigation/TDS.



Autodesk technology helps you create, set up, and define land-planning projects; coordinate systems including state plane and latitude/longitude; label COGO (coordinate geometry) and geodetic points; define and edit parcels and roadway alignments; automate drafting procedures; create terrain models; and calculate volumes and contours. Our civil engineering and design software automates typical procedures for any size of project.



For 2D and 3D analysis and presentation, our civil engineering solutions offer tools that integrate data from multiple CAD, engineering, and GIS formats into a single precise display. Integral to your engineering planning, we provide the ability to import 3D terrain models, create fly-by animations, query objects, and perform what-if spatial analyses. Then create compelling thematic maps for print or web publication or for project meetings with clients and regulatory review boards.

Our civil engineering solutions also provide tools that help you improve the quality of all your presentations. You can edit raster data and convert it to vector, geo-reference, position images, and integrate scanned paper drawings, aerial photos, maps, or satellite imagery into your projects.

Autodesk civil engineering solutions provide native DWG compatibility, and you can personalize or program the software or add a third-party application to meet your specific design requirements. Plus our products offer new and enhanced productivity tools that help you produce presentation graphics and manage CAD standards. If members of your project team require less high-end design capability but more review, markup, and redlining, your solution will do that too.

▶ *"The Autodesk land development solutions meet the highly specialized software needs of our engineers, planners, and surveyors while letting us safely and easily share enormous data sets with our teams."*

These tools help us gain a competitive advantage by facilitating collaboration and driving down costs."

— Tim Burley, P.E.
Partner, Burley-Guminiak & Associates, LLC
New York, USA

Documentation, Communication, and Data Management

Keep your entire project team connected with our online collaboration and project management service. It securely maintains project data in a central online location so all contributors can get the information they need instantly. You can store, track, and share any type of data, from simple text documents to information-rich Design Web Format (DWF) files, LandXML, or even project data. And if team members don't have the software used to create the file, they can download Autodesk® Express Viewer, a small, free* application that views and prints DWF files to actual scale.

If you want to provide live web access to interactive designs, maps, and geospatial data, our civil engineering solutions connect to multiple data sources simultaneously and then securely deliver data over the Internet or your intranet. Its powerful data access and serving capabilities deliver maps quickly to web browsers, making planning and data management easier for all team members.

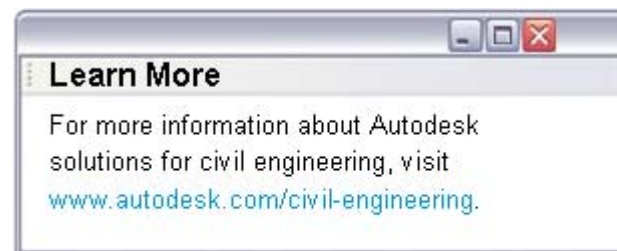
We support open standards such as the Open GIS Web Map Service 1.1.1 Specification and XML, so developers have a flexible environment to create custom applications and technology integrations. You can host this data on your own servers or choose our hosting services for fast and easy implementation. If you want to increase your client service offerings, we have hosting that can help you easily and profitably manage your client's data.

Solutions to Business and Design Problems—More Than Technology

Autodesk and its partners can provide professional services to help you make the most of your technology investment. We provide everything from product installation and configuration to project lifecycle process recommendations. Buying the best solution for the job is the first step. Understanding how to apply the solution effectively is the next step. Our consulting services are designed to help you do just that.

Smart Management for Your Technology Investment

When you take advantage of Autodesk Subscription, you benefit from increased productivity, predictable budgeting, and simplified license management and reporting. You get the latest Autodesk software releases, incremental enhancements, and access to web support and e-Learning.** With Autodesk Subscription, you keep your design tools up to date and make the most of your technology investment.



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** e-Courses are currently available in Imperial English only.

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