

AutoCAD Civil 3D 2008

Quick Reference

Customer's Challenge

- A shrinking pool of qualified civil engineers is limiting the customer's ability to compete.
- Design changes, errors, and the inability to easily share data cause project delays, quality concerns, risk of liability, and projects that go over budget.
- Multiple people on a design team are duplicating efforts as well as data causing designs to be out of sync.

Business Drivers

- Increasing profitability by completing more projects in less time with fewer resources
- Reducing liability because of improved accuracy for plan production
- Being more competitive and delivering greater value for clients
- Realizing a higher return on software investment (ROI) because of the availability of services, support, training, and third-party applications
- Attracting and retaining talented employees

Customer Hot Buttons

- Having to maintain multiple software products for different types of projects
- Developing and enforcing CAD and design standards
- Exchanging design data across various software products
- Increased competition for work and shortage of qualified civil engineers
- Multiple people working on the same projects in parallel can cause coordination problems and costly errors.

Key Industry Segments

- **Site development/Subdivision** - Responsible for residential and commercial site design and development
- **Environmental** - Responsible for environmental impact studies, landfills, and site remediation projects
- **Local Roads and Highways** - Responsible for road and highway construction and maintenance at the local level
- **Highway Networks** - Responsible for highway networks, typically developed by departments of transportation or other government organizations
- **Surveying** - Responsible for resolving questions of land boundaries, recording existing ground conditions, and providing the data baseplan and framework for a project
- **Water/Wastewater** - Responsible for storm water management, drainage engineering, water treatment and distribution, and sanitary sewer and wastewater treatment

Target Job Titles

- Civil and Site Engineers
- Subdivision Designers
- Utilities Designers
- Land and Resource Planners
- Environmental Engineers
- Surveyors and Mappers
- Drafters and CAD Technicians
- Roadway and Highway Engineers
- Transportation Engineers (Airport, Rail, Channel)
- Water/Wastewater Designers
- Landscape Architects

Key Selling Points

- Save time and money and reduce errors with a dynamic engineering model.
- Reduce purchase, deployment, and support costs with one complete solution for all civil engineering projects.
- Increase value to clients by delivering more design alternatives in less time.
- Work in a familiar AutoCAD environment.
- Create production sheets faster.
- Increase accuracy through automatic updates.
- Enable multiple members of a design team to have parallel access to design data.
- Tailor AutoCAD® Civil 3D® software to meet specific needs with a rich API (application programming interface) and a variety of third-party applications.
- Clearly communicate design intent and complete final proposals with realistic 3D rendering.
- Work with any DWG™ drawing files, read/write MicroStation® DGN drawing files, import/export AutoCAD® Land Desktop project data, work with LandXML data and GIS data formats, including ArcInfo® coverages and Export (E00), ArcView® Shape, and more.

AutoCAD Civil 3D Customers and Project Types

- **Site/Subdivision Design**
 - Miller Legg - Designing residential development with 140 to 1,000+ parcels
 - Cole & Associates - Full range of civil engineering and land development services, including landscape architecture, planning, and surveying, for public and private sectors
 - Brannon Corporation - Designed a 450-lot residential development

Environmental

- Rana Creek Restoration Ecology - Restoring butterflies and healthy ecosystem to the landscape
- Seattle Public Utilities - Reducing runoff and protecting wildlife
- Swanson Hydrology and Geomorphology - Restoring a sustainable ecosystem
- Grontmij Netherlands - Designing a waste-processing facility

• Transportation

- Dohwa Consulting Engineers - Redesigning a national road interchange
- Korean Railroad Technical Corporation - Developing and modernizing the Korean railroad system
- Landrum & Brown - Designing airports, terminals, and airspace

• Water/Wastewater

- Cheng du Hydroelectric Investigation and Design Institute - Designed world's tallest double-arched dam

For more details on these and other customer stories, visit www.autodesk.com/civil3d.

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