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# Subscription Advantage Pack for AutoCAD® Civil 3D® 2010

The Subscription Advantage Pack for AutoCAD Civil 3D 2010 provides new functionality for importing and visualizing point clouds and designing roundabouts, and powerful enhancements that can help streamline existing workflows in AutoCAD Civil 3D 2010 software. This pack also includes Autodesk® ImageModeler™ 2009 software.

## FEATURES AND BENEFITS

**1. Point Clouds**—Import and visualize large sets of point cloud data, such as 3D laser scanning/ LiDAR data sets with millions of points, in AutoCAD Civil 3D 2010 with the Point Clouds feature. The point cloud feature enables you to:

- Import LiDAR data in LAS format and all point file formats supported by AutoCAD Civil 3D 2010
- Visualize large point clouds in 3D
- Stylize point data based on LAS classifications, RGB, elevation, and intensity
- Filter point data by style
- Snap to points within the point cloud using standard AutoCAD software tools

Some common uses of LiDAR data in AutoCAD Civil 3D 2010 may include using the point cloud data for site surveys, developing an understanding of the site context, and digitizing as-built features (for example, building footprints and curbs) for design projects.

**2. Roundabout Layout**—More quickly lay out roundabouts, including signage and striping, based on common design standards using the Roundabout Layout feature. Once the horizontal geometry of a roundabout has been defined, you can dynamically move and edit the roundabout throughout the optimization process.

**3. General Enhancements**—Streamline existing workflows in AutoCAD Civil 3D 2010 with a variety of powerful enhancements for transportation design, survey, visual analysis, and general production. Capabilities include:

### Transportation Design Tools

- Best-fit alignment creation tool
- Split (create subset) alignment
- Join profile tangents (extend tangents to point of vertical intersection [PVI] by grade intersection)
- Set PVI by elevation and grade
- Create spiral by sweep angle
- Import superelevation from Microsoft® Office Excel® files (XLS)

### Survey Tools

- Crossing breakline utility
- Survey import (TSS format support)
- Survey import (SRV format support)
- Survey change report
- Survey point and chain edit utility

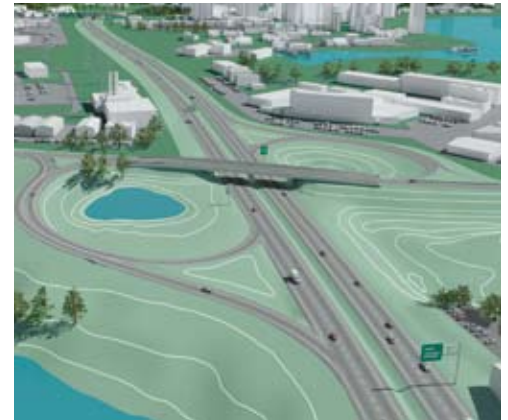
### Visual Analysis Tools

- “Drive Along” visualization
- Line-of-site analysis
- Vertical distance analysis

### General Production Tools

- Save as DGN format
- Create surface from GIS data
- Zoom to point
- Calculate minimum vertical distance between surfaces
- Calculate minimum vertical distance between entities
- Divide/crop surface (create subset for use in other drawings)

**4. Autodesk ImageModeler 2009**—ImageModeler 2009 image-based modeling and photogrammetry software helps you generate 3D models from 2D digital images, giving architects, designers, and entertainment creators a new approach to 3D modeling.



## PRODUCT COMPATIBILITY

The Subscription Advantage Pack for AutoCAD Civil 3D 2010 works with:

- AutoCAD® Civil 3D® 2010
- Autodesk® Education Master Suite 2010
- Autodesk® Education Suite for Civil & Structural Engineering 2010
- Autodesk® Design Academy 2010

## LANGUAGES AVAILABLE

The Subscription Advantage Pack for AutoCAD Civil 3D 2010 is available in:

- English
- Chinese (Simplified)
- Chinese (Traditional)
- Czech
- French
- German
- Hungarian
- Italian
- Japanese
- Korean
- Polish
- Russian
- Spanish

Subscription Advantage Packs can be downloaded by signing in to Subscription Center. For more information visit [www.autodesk.com/advantagepacks](http://www.autodesk.com/advantagepacks).



NOTE: Autodesk ImageModeler and Autodesk Model Review are available in English only.

Cover rendering courtesy of Natalie Chusa.

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