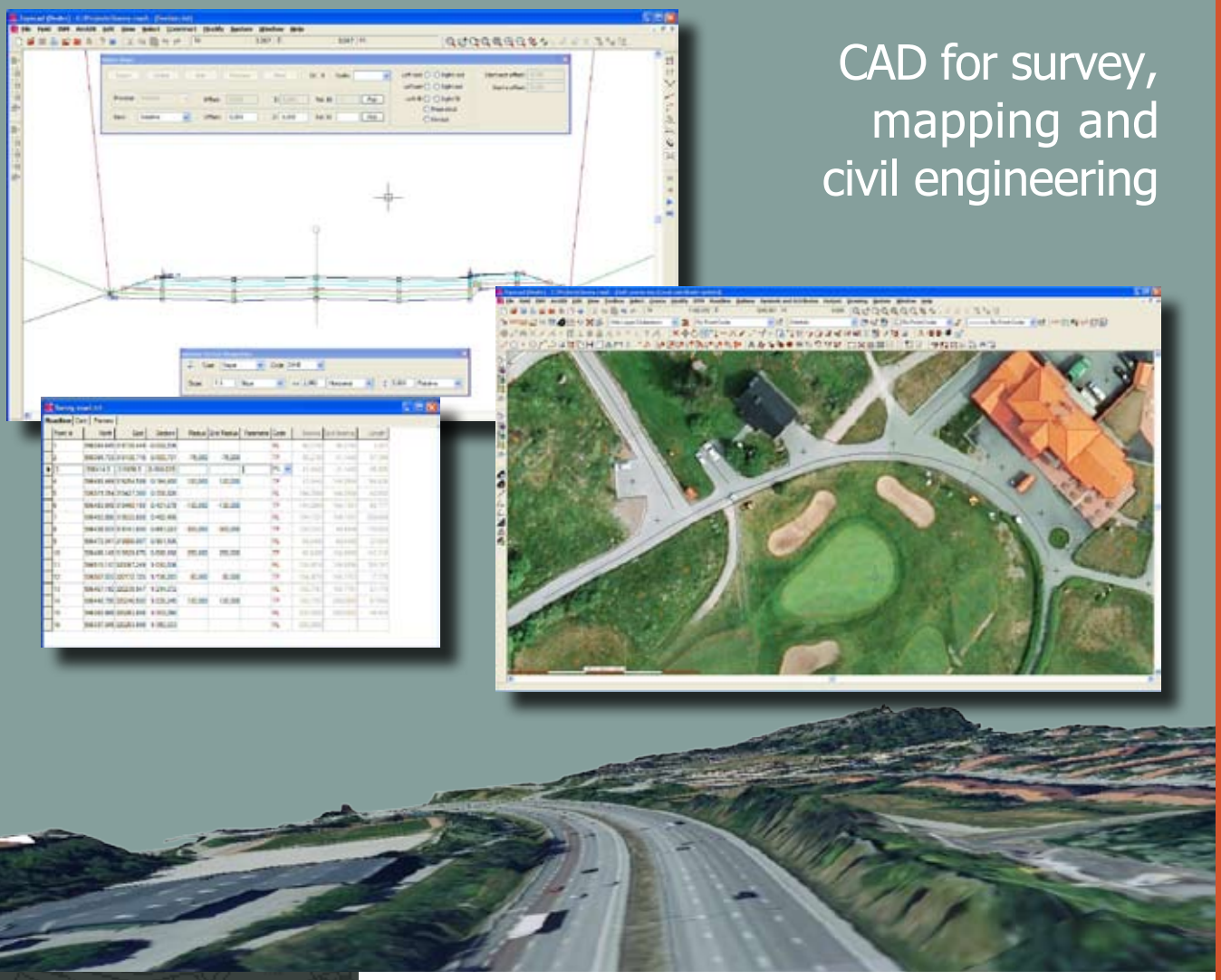
Topocad

CAD for survey, mapping and civil engineering



Topocad

Topocad is a CAD system made for survey, mapping, design and setting out. Since its initial development in 1994, Topocad now has more than 15,000 users all around the world, is installed in 80 countries and translated into 12 languages.

For the surveyor it allows data from the field to be uploaded, undertakes all necessary data editing and calculations to produce a survey plot or map. A very wide range of CAD functionality makes it easy to edit and create a finished plot. A DTM function allowing the creation of digital terrain models and contours is integrated within the Topocad Survey module. For Stake out coordinate data can be directly transferred from Topocad to the instrument. The coordinates are directly selected from drawings, road lines, profiles, cross sections etc. Import and export formats are many; DWG, LandXML, MX, coordinate files, DGN, Shape and many more formats. Topocad supports Geo referenced data and supports various raster formats like BMP, TIF, JPEG, CALS, Mr Sid and ECW to be used as background maps.

An integrated 3D view displays a drawing or a digital terrain model directly in 3D, and allows rotation of the view.

Within the Earthworks module, calculations using specific integrated functions produce volume calculations between digital terrain models, or from longitudinal sections, and cross sections. The Design module uses ready made road and sewer cross-templates for road, railroad and other designs. An advanced report editor is built-in, and helps to easily create individually designed reports. The land surveyor can use the least squares network adjustment software with its wide range of functions for editing, error checking, reports in text and in graphic. Network simulation is built-in and easy to undertake.

Other add-on modules allow connection of Topocad data directly to a variety of different databases. There is direct access to ArcGIS applications using either a personal Geo database or a connection to ArcSDE. A connection via an ISM converter allows easy access to Oracle spatial databases, and there is also a general database connection.

Topocad is easy to use and provides a powerful CAD system for all requirements when it comes to survey, setting out (COGO), CAD, mapping and civil engineering.

News in Topocad 11

» New menu icons.
» Possibility to duplicate point codes.
» Description to all system files.
» Adjustable size of haircross.
» Several new file types as external references (DWG/DFX, road lines, coordinate files etc.)
» Stretch command and line editing now support polygones.
» Command to add/delete parts in a polygon.
» Edit as text handles different types of objects.
» History is added to drawing, terrain, net adjustment and survey data documents.
» Undo/Redo in survey data, net adjustment and terrain model.

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