Infrastructure Modelling Software

Autodesk's new Infrastructure Modelling software products facilitates users in utilities, telecommunications organisations and government agencies improve the design and management of their infrastructure. Autodesk's portfolio of products - including AutoCAD Map 3D 2010, AutoCAD Raster Design 2010, Autodesk MapGuide Enterprise 2010, and Autodesk Topobase 2010 - provide users with a solution for designing, visualising, simulating and analysing infrastructure assets and development plans.

In a recent live webcast, Jay Bhatt, Autodesk senior vice president for AEC Solutions, addressed technology's critical role in the design and management of infrastructure. Autodesk Infrastructure Modelling technologies facilitates aggregating multiple sources of data from CAD, GIS and 3D modelling systems-allowing them to help improve the design of new systems and manage already constructed infrastructure more efficiently.

AutoCAD Map 3D 2010 software is a leading engineering solution for creating and managing spatial data. Using open-source Feature Data Object (FDO) data access technology, AutoCAD Map 3D 2010 software 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. For the Infrastructure Modelling process, AutoCAD Map 3D 2010 brings together geospatial, civil engineering, and utility network data into a common CAD environment. New features in AutoCAD Map 3D 2010 include:

AutoCAD Map 3D survey functionality focuses on asset data collection and mapping. This functionality helps users organise, manage, and integrate their field collected data within the AutoCAD Map 3D environment.

Seven new overlay operations enhance the analytical capabilities of AutoCAD Map 3D 2010 geospatial software. Users can compare or combine FDO-connected data stores for improved decision making. Using Windows Workflow Foundation, AutoCAD Map 3D automates repetitive tasks using a new and powerful workflow framework and user interface. This framework makes it easy to build, save, and share simple and complex workflows using a visual editor.

AutoCAD Raster Design 2010 software extends the power of AutoCAD software and AutoCAD-based products by enabling engineers and designers to use scanned paper drawings, maps, satellite images, aerial photos, and similar digital imagery within their design projects. With this tool, designers can easily turn scanned designs into digital CAD data that can be incorporated into infrastructure models.

Autodesk Topobase 2010 infrastructure model management software provides a single source of accurate network information for maintenance, planning, reporting, and integration into asset management and operational systems. Built on AutoCAD Map 3D and Autodesk MapGuide software, Topobase is an open solution with industry-specific workflows that helps customers reduce backlogs, enhance data quality and improve operational efficiency. New features in Topobase 2010 include simplified underground asset profile creation tools; enhanced reporting and charting capabilities; improved Web performance; and easier and greater control over user access.