TDS ForeSight

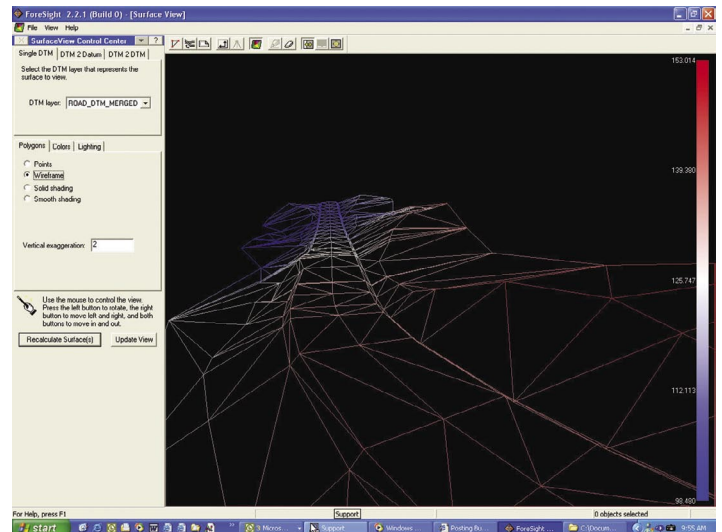# ForeSight™ takes you further— in the field and at the office

ForeSight computer-aided surveying software from Tripod Data Systems™ gives you multiple tools to work with data from your field survey. Whether you're at the office or in the field, ForeSight helps you move your projects through to completion faster and easier. ForeSight reads linework commands as you collect your data and automatically draws lines with curves. You can identify points with descriptive names, making your project easier to understand. ForeSight helps you to analyze your field data, adjust it, plot it, compute it, manage it and prepare it for the project's next phase. Expanded CAD tools include basic point editing, DTM surfaces and road layouts. Use ForeSight to produce complete, artistic plats. ForeSight also gives you multiple reporting and exporting options—including AutoCAD DXF and DWG files. So you can move your project forward using the data formats you and your clients need.

Standard Modules

COGO—Perform all your surveying calculations with ForeSight's complete COGO package. Like the rest of ForeSight, COGO uses intelligent fields: Click on a line and ForeSight automatically enters its length in an input box, ready for use.

Drafting—Create a perfect plat with ForeSight's extensive assortment of drafting and drawing tools. ForeSight's CAD tools are easy to use, but they're as powerful and flexible as traditional CAD tools. ForeSight supports all Windows® graphic plotters and printers.

Auto linework—Let ForeSight draw parts of your job. If you use a TDS data collector and incorporate linework commands as you collect data, ForeSight can automatically draw lines with curves. ForeSight can also separate data into layers, helping you organize your job quickly.

ForeSight's advanced road layout allows you to graphically model your road and terrain data.

Optional Modules

Transfer—Transfer data between ForeSight and TDS data collectors or total stations running TDS Onboard™ software.
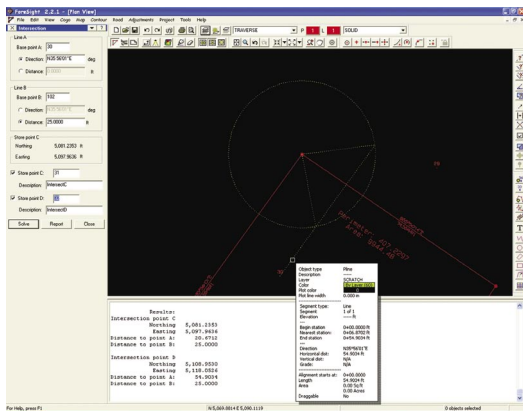
Least squares adjustment—Adjust your data to conform to the statistically most likely coordinates. ForeSight analyzes your survey data and displays a graphical representation of the points to complement the comprehensive text reports.

Contouring and DTM—Get a bird's-eye view of your survey from any angle or perspective. With its powerful graphics engine, ForeSight can quickly generate a digital terrain model or a color-coded 3D surface.

Road layout—Make alignments or generate points and offsets. You can enter alignments manually or import DXF, DWG or TDS Survey Pro™ files. Road layout requires the optional contouring and DTM module.
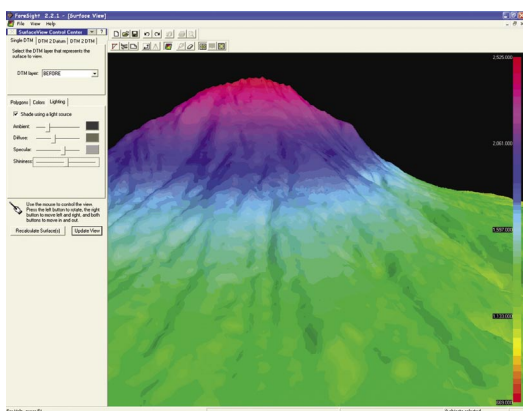
TDS™
THE WAY TO GO
TRIPOD DATA SYSTEMS
A TRIMBLE COMPANY

Analyze, adjust, plot and manage your field data— ForeSight gives you the tools to get the job done right
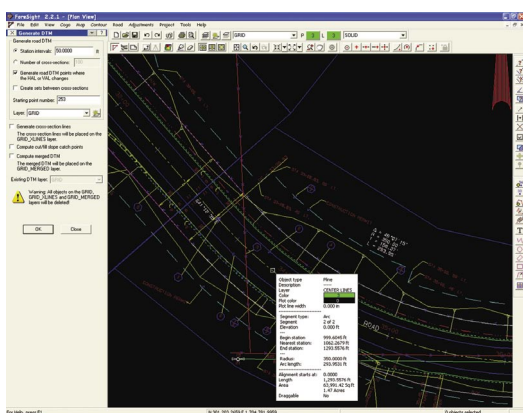

Use COGO tools to move your project forward

ForeSight includes a complete set of COGO tools to help you analyze your field data and generate new data for your project's next phase. Basic COGO tools include inverse in multiple modes, closure report, area and corner angle. ForeSight also features dynamic and advanced COGO tools such as offsets, subdivide, predetermined area, extended intersection, horizontal and vertical curve solutions and more. And all of these tools are designed specifically for the needs of land surveyors— so they work the way you do.
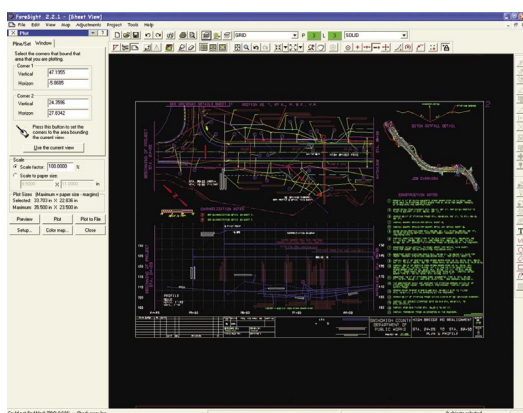

Work with your data in all three dimensions

ForeSight gives you a complete, 3D view of your project. You can create contours easily with just a few clicks of your mouse. Adjust interval, color and labeling easily as well. And use breaklines to compute Digital Terrain Models with complete control. You can even view your surface in a 3D colored and shaded view; it's an excellent way to check for spikes or holes in your surface. ForeSight also computes volumes using DTM-to-datum or DTM-to-DTM methods. Plus when integrated with the Roads module, you can calculate volumes using a road surface.

Integrate established road designs into your project

ForeSight's Road Layout module makes it easy to incorporate established road designs into your project. Road data files are fully compatible with TDS data collectors, so you can load them into your data collector and use them in the field. ForeSight lets you see your road data graphically and make necessary modifications using the integrated editor. You can also generate a 3D model of your road for volumes and 3D viewing.

Draft professional, complete project plats

ForeSight gives you all the tools you need to generate complete plats of your project. Its easy-to-use Plot Wizard helps you set up your plats, including paper space and placement for title blocks, scale bars and north arrows. Or use the Plot Wizard tools individually to generate more advanced plats. You can even set up your plat independent of your plan view so there's no unnecessary clutter on your screen. Use ForeSight's DynaView tool to specify the layers you want to display; you can even create multiple layer sets to customize how your plat will look. With ForeSight, you don't have to use complicated CAD tools to give your clients the professional-looking plats they expect.
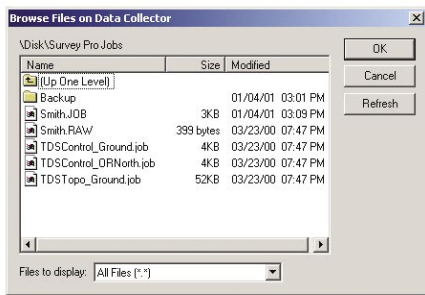
ForeSight reduces time spent preparing and finishing jobs in the office

Easy-to-use point names

Giving points descriptive names like "curb" makes it easier to organize your data. Point names define lines and sets of common points quickly. ForeSight can import and export both job and ASCII files with alphanumeric point names.
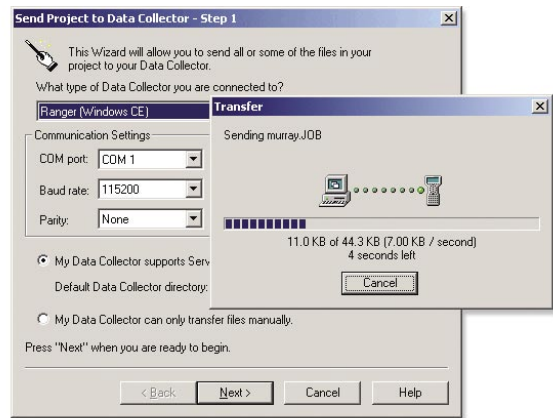
Convert, import and export job files

With ForeSight you can create new projects easily by importing job files from your TDS Ranger™ or TDS Recon™. You can also export existing ForeSight projects as job files. Using TDS HP 48GX or DOS-based data collectors? ForeSight converts CR5 files into job files, minimizing efforts when upgrading your field computer to the rugged Ranger or Recon. It also seamlessly works with CR5 files with no conversion necessary.

Save time with file transfer, productivity tools

ForeSight makes it easy to transfer files and data between your Ranger, Recon or other data collector and your laptop or PC. Use ForeSight's built-in file transfer utility. Or get even more capabilities with ForeSight DXM™ (Data eXchange Manager). ForeSight DXM includes integrated geodetic tools, fast USB transfers and more. It also works with the new LandXML universal surveying files format so you can import, work with and export LandXML data files. Plus, you can send your data to CAD with all the lines intact; you won't have to process a single linework command.

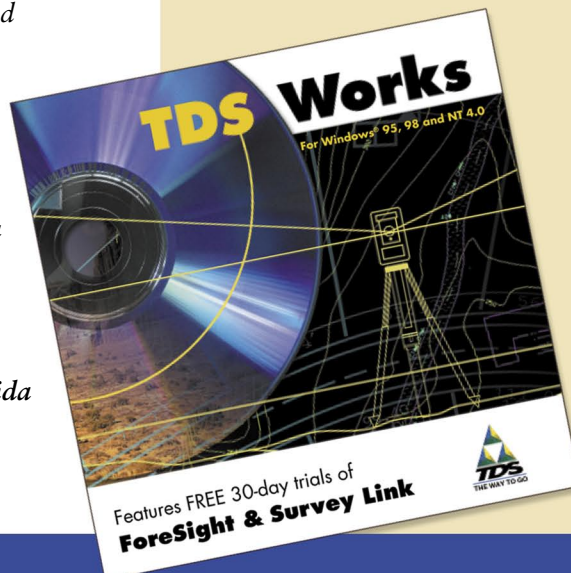## What are professional surveyors saying about ForeSight?

Free TDS Works CD!

TDS offers a free 30-day trial of the complete ForeSight system—including the optional transfer, least squares adjustment, contouring and DTM, and road layout modules. The demo is available from our Web site or comes on the TDS Works disc, which also includes a **free 30-day trial of:**

▲ ForeSight
▲ ForeSight DXM
▲ Survey Pro

Plus:
▲ SOLO Field™
▲ SOLO Office™
▲ Product Manuals

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ForeSight Function Table Highlights

ADJUSTMENTS
Translate, rotate, scale
Traverse adjust: angle adjust, compass rule
(See optional least squares adjustment module)

AUTO MAPPING
With or without raw data/linework file
CAD
Intelligent snap, snap preview
Digitizer

COGO
Area
Inverse by points, point to a line, point to set
Horizontal and vertical curve solutions
Closure report
Station offset
Extended intersection
Trim line
Best fit line
Map check
Traverse on curve/line
Radial stakeout
Point in direction (manual traverse)
Corner angle
Intersections
Offset point
Triangle solutions
Traverse/sideshots
Subdivide
Conversions: zenith/slope—horizontal and vertical distance

IMPORT and EXPORT
TDS coordinates, TDS jobs, TDS point lists and TDS raw data
DXF/DWG and text files
Nikon transfer data
Uses Survey Link for more conversions
(See optional transfer module)

LAYER MANAGEMENT
Virtually unlimited AutoCAD-compatible layers
Isolate layer
Default point/line color and type

MAP FUNCTIONS
Multiple colors, fonts and line types
Add/edit points
Show/hide point labels, non-plotting point labels
Show dynaview/text hotspot
Add/edit sets, annotate sets, blocks, tables
Draw lines, plines or sets
Single linework command
Draw circle/box, plot box, edit pline
Add north arrow/scale bar
Create block definitions, label box
B-spline and overhauser spline
Add/edit text from file or typed line
Manage text styles
Annotate/number lots
Add/edit hatching
Add/edit dynaviews (multiple map views)
Dynaview wizard
Numeric and alphanumeric point names

OBJECT SELECTION
By name, window, layer, line type, color, description, point list

PLOTTING and PRINTING
Plot/print setup, preview
Uses any plotter/printer supported by windows
Color maps, save multiple types
Support for plotting line widths in color map

PROJECT OPTIONS
Unit selections of feet/meter, degrees/grads, azimuth/bearing
Precision display settings for values
Text controls
Plan/profile/sheet display/scale options

SUBDIVISIONS
Predefined area
Street intersection
Cul-de-sac

USABILITY TOOLS
Real time pan and zoom
Zoom extents, window, to point, by percent, pan, previous/next
Undo and redo
Right mouse menu for objects
Double click to edit objects
Identify objects with mouse
Drag and drop tool bars
Full screen mode
Stacking dialogs
Previews
AutoCAD-compatible fonts and colors
Over 150 point symbol types
30 different line types and 28 hatch patterns
Project templates
Undo size setting
Auto save
Display/plot segment definitions
Renumber points/raw data error wizard

VIEWS
TDS coordinates, view/edit coordinate file
TDS raw data, view/edit raw data file
Plan (northings/eastings), profile, sheet, 3-D
Reports, text files and point lists

Please note: This chart is an abbreviated general guide to software functions.
All specifications are subject to change without notice.

Optional ForeSight Modules

CONTOURING and DTM
Generate/label contours
Break lines and boundaries
Hide/show break lines and boundaries
DTM volumes
Average end area volumes
Generate cross section lines for average end
DTM grid and edge
Spot elevations

CONTOURING and DTM continued
Generate and label profiles (cross-sections)
Show triangulation

LEAST SQUARES ADJUSTMENT
Simple, wizard driven interface
Ability to preview results prior to making changes
Complete text reports

ROAD LAYOUT MODULE
Enter/edit road components, templates
Generate DTM surface, catch points
Generate grade book and centerline report
Graph cross sections

TRANSFER—SIMPLE DATA EXCHANGE
Data exchange with TDS data collectors
Data exchange with instruments with TDS onboard software

System Requirements

800 x 600 or greater screen resolution
256 or more colors

Windows 2000 or XP
23 MB free disk space

Your local TDS dealer

TDS
TRIPOD DATA SYSTEMS
A TRIMBLE COMPANY
P.O. Box 947, Corvallis, OR 97339

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