Softree
Engineering an Easier Way

FOREST ENGINEERING Software

Good engineering and planning can reduce the costs associated with road building & logging.

That's where we can help.

By making foresters and engineers more productive both in the field and in the office, we are helping forest operations increase harvest efficiency.

Powerful Software Tools for Forest Engineering

RoadEng®

Complete road and site design software. Includes all the features: survey data management, 3D mapping, site planning and design, cable logging / deflection line analysis, and road design.

TerrainTools®

3D mapping and site design software. Create 3D terrain models and engineering designs for a wide variety of projects. Includes options for manual p-line data entry and cable logging.

Softree Optimal

Alignment optimization software add-on. Find the best road location with a faster comparison of road locations based on design criteria, cost and available right-of-way. Reduce engineering time.

An Industry Leader

Softree is recognized as a world leader in forest engineering software solutions. Proven and field-tested, our software is used by thousands of consultants, companies, universities and governments worldwide.

We recognize that most forestry professionals spend a lot of their time in the field, not in front of a computer screen. That's why we have put a great deal of effort into keeping our software simple and intuitive.

Compatible

Softree software integrates well in the modern forestry office. Clean, simple and standalone, it allows information to move seamlessly between other applications, including Office®, ArcView®, and AutoCAD®. It also works with a variety of field equipment, such as GPS, laser guns, and Windows 10 tablets.

COMPATIBLE   FAST   POWERFUL

SURVEY DATA ENTRY & MANAGEMENT

Collect traverse or P-Line data. Boundaries, tie lines, cable deflection lines, and road & site surveys can be entered in a variety of formats.

Create a Terrain model (TIN) from large point sets (including LiDAR) with over 10,000,000 points. Customize your display options in 2D or 3D. See smoothed and labeled contours, slope vectors, and color shading for slope, aspect, and elevation.
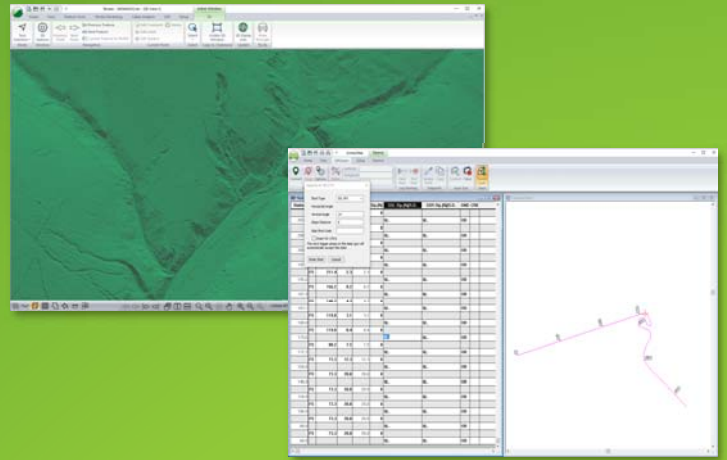

SITE DESIGN

RoadEng and Terrain Tools both contain tools for creating site plans for bridges, log-dumps, major culverts, fish passage and stream restoration projects.

Site design is made easy with intuitive grading functions, feature creation and design of polygonal shapes such as ponds, pads, pits.
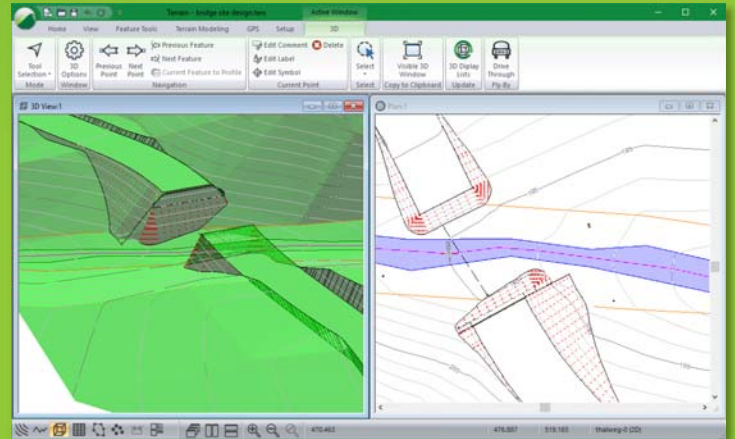
CULVERT DESIGN*

In RoadEng, an interactive culvert editor panel allows you to modify culvert position, diameter, type, length, skew and gradient. Add, edit and remove culverts using the culvert editor panel. Design options available for both natural stream crossings and cross drains.
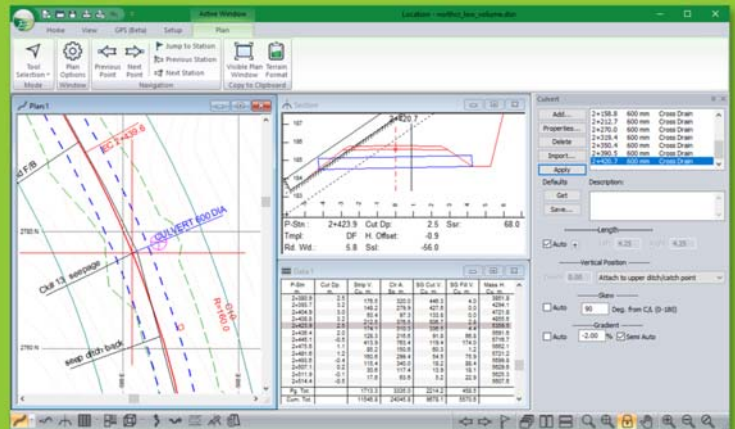
CABLE LOGGING ANALYSIS

Analyze payload, clearance, and line tensions. Evaluate different types of equipment and logging configurations. Plot various carriage positions for a given midspan deflection (third point method).
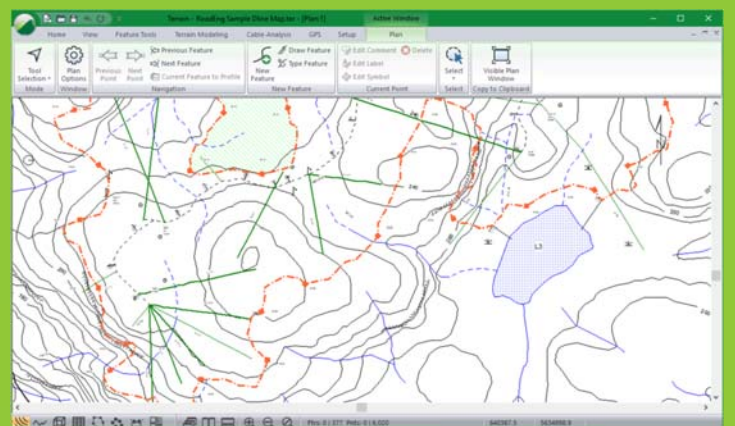
* *RoadEng* license required.

† *Softree Optimal* license required.

LIDAR-BASED ROUTE PLANNING*

Both RoadEng and Terrain Tools handle more than 10 million LiDAR points with ease and include functions for LiDAR thinning outside your areas of interest. Design and cost multiple roads in the context of each other. Plan road networks. Evaluate road options before going into the field. Take your LiDAR map & preliminary design with you to the field, if you want to.

INTERACTIVE ROAD DESIGN*

Design access roads from start to finish with constant feedback from real-time window interactivity. Enter survey data, create accurate terrain models, design horizontal and vertical alignments, edit cross sections, and perform earthwork calculations. A template editor allows you to easily create turnouts, widen curves, and put in bridges, landings and cut benches.

FIELD SOLUTIONS

Designed to work on all Windows 10 enabled tablets and compatible with the Trupulse 360 laser rangefinder, and most internal/external GPS devices (serial NMEA and Garmin).

GPS integration in all modules allows you to view where you are in Plan, Profile, or Section view at any time. Create GPS tracks on your primary survey data.

OPTIMIZATION TECHNOLOGY *†

With Softree Optimal, you can consistently find the lowest-cost engineering solution that satisfies your design standards. Quantitively compare multiple alignments and design variables based on construction cost. Know your cost & reduce it.

You can balance your road automatically. Determine the most cost effective borrow and waste site locations, and easily account for excess or borrowed material.

DESIGNED FOR FORESTRY

LiDAR

Powerful for handling large data sets. Includes tools for accurate surface thinning and modeling. Get more out of your investment with smarter access road design.

PLANNING

A flexible engineering solution that allows you to map, cost and plan your forest engineering activities.

ENGINEERING

Our software focuses on engineering, not drafting. It's not designed for CAD specialists. Our suite of products has been designed for busy forest engineers.

Systems Requirements

- Windows 7, 8, 8.1, or 10 Operating System
- 2 GB system RAM (4 GB recommended)
- Minimum 800 x 600 resolution (more recommended)
- Processor or motherboard built-in video is adequate
- 1 GB disk space

File Format Compatibility

- **IMPORT:** .TIF, .JPG, .BMP, .SHP, Mr.SID, ECW, LAS, .LAZ, .GPX, .GML, .ASCII, Excel, .DXF, .DWG, USGS DEM, SDTS, .TXT, .CSV, LandXML, .DGN, .KMZ, .KML, .POL, .JP2

- **EXPORT:** .SHP, .ASCII, Excel, .DXF, .DWG, .JPG, .DGN, .KMZ, TIF, JPG, BMP and LandXML.

Used by Leading Forestry Companies Worldwide

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1,500+ Companies | 5,000+ Users | 70+ Countries

Call us Toll Free at **1.866.519.6222** or **1.604.519.6222** (International)
Email us at **sales@softree.com** | Visit us at **www.softree.com**

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Suite 215 - 1000 Roosevelt Crescent | North Vancouver, B.C. | Canada, V7P 3R4