Geo-Plus*Vision*Plus
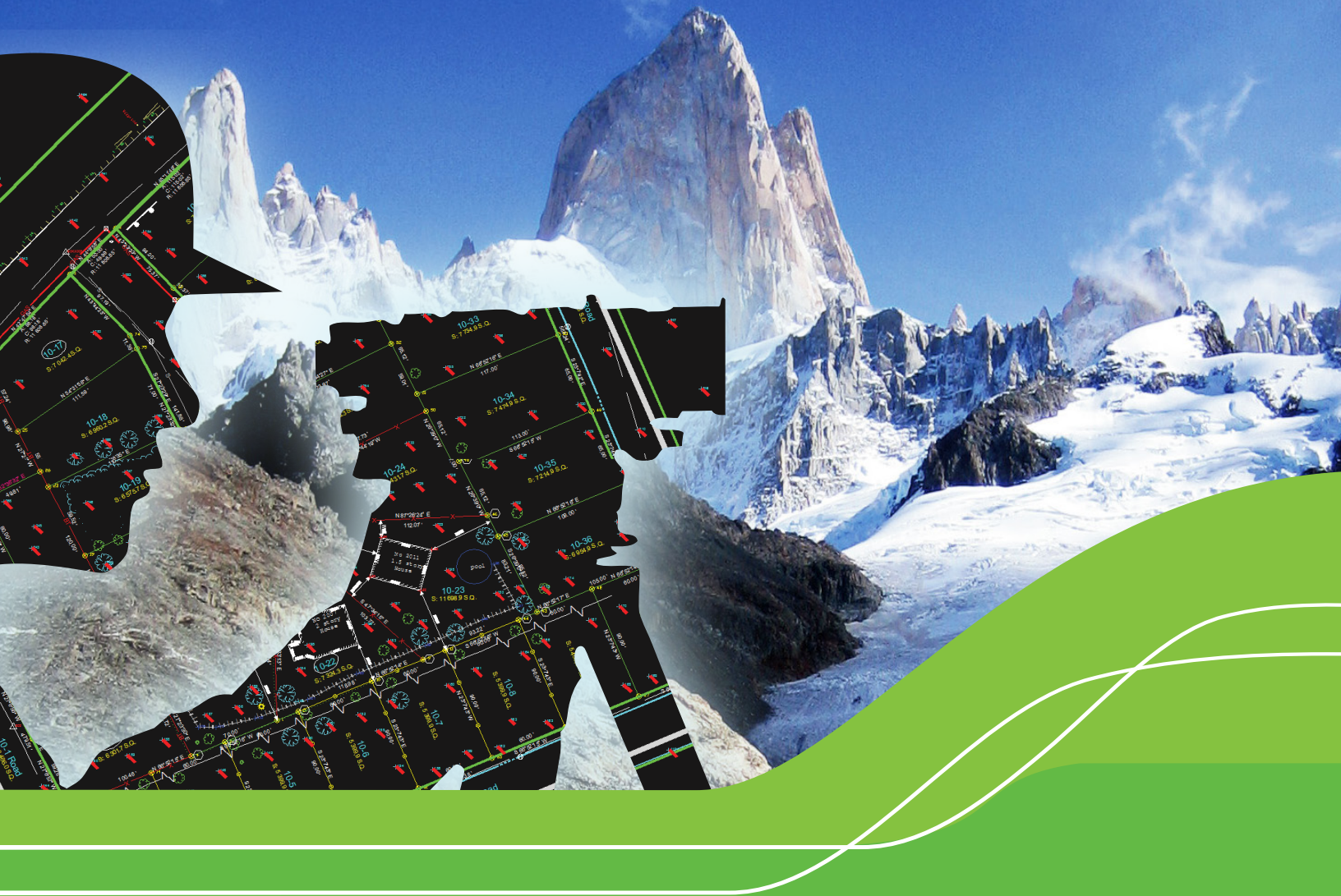

- **Powerful Set of COGO Functions**
- **Smart Topology Parcel Manager**
- **Excellent Points and Connectivity Manager**
- **Versatile Least Squares Adjustments**
- **Customizable Metes and Bounds Capability**
- **Dynamic Building Siting and Staking**
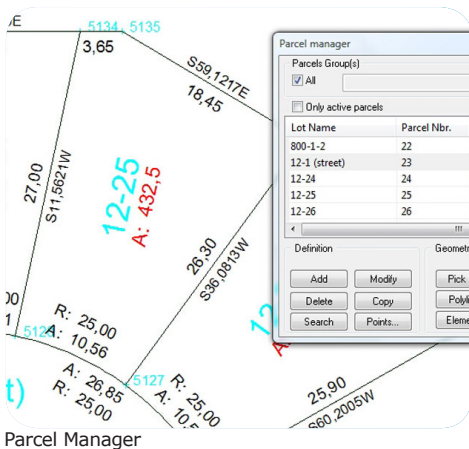
Geo-Plus

Geo-*Plus* Vision*Plus*

GEO-PLUS VISIONPLUS WHEN POWER AND FLEXIBILITY GO HAND IN HAND

PARCEL MANAGEMENT

One of the great strengths of VisionPlus is its parcel manager. It is designed to draw segments, distance, direction and area annotations, and sinuous lines representing water streams. It is also used to write technical descriptions, generate the owners grid and maintain up to date the lot topology. The lot geometry definition can be achieved in several manners:
- by picking on screen the points that define the vertexes and the distances,
- by entering on the keyboard the point numbers and the distances,
- by selecting the polylines,
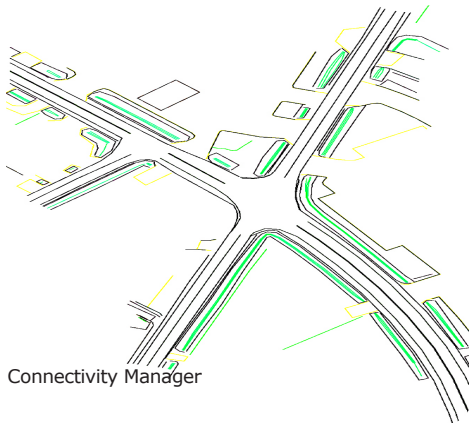- by selecting a group of segments and distances.

Parcel Manager

CONNECTIVITY CHAINS

The chain, 2D or 3D, is a list of points that represents the physical elements measured on a topographic surveying. The chains are easily linked to each other.

The chain manager offers a complete graphic interface to enter point numbers. With this tool, 90% of the drawing is automatically completed.

Connectivity Manager

TECHNICAL DESCRIPTION

The technical description output is automated. All that is needed is to choose the administrative entities (cities, circonscriptions…) from list boxes. Many templates used by major land managers are included in the software. Furthermore, the neighbouring lots are automatically found by using the parcel topology.
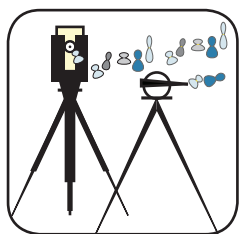
POINTS MANAGEMENT

A point can be drawn with one or more of the following elements: its symbols, its number, its PCodes, its elevation and its notes.
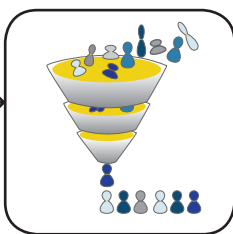
The grouping of many points in a user defined group of points facilitates their usage in other functions. A point is drawn by two different methods, by independent or grouped components. A simple click is all you need to select all the elements of a point drawn by grouped components.
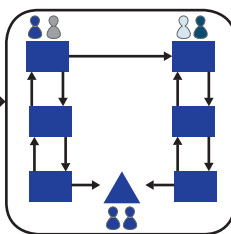
MANAGEMENT OF NOTES AND PHOTOS

The note manager is a land data visualizing tool that helps in the analysis and decision making process. The text and the pictures of a notebook are gathered and linked to the corresponding points. On the plan, the photograph is represented by an icon which is a link to the full size photo. It can manage a wide variety of image file formats (eg: jpeg, gif).

> " …Bottom line is that we are very happy with the product and very impressed with the customer support and expect to carry on our relationship with Geo-Plus in the coming years."
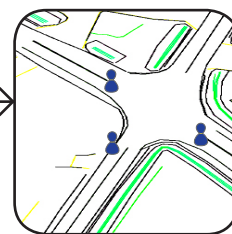>
> W.A. (Bill) Harper, a.-g.
> City of Ottawa

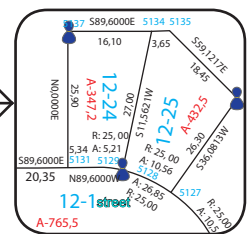VisionPlus imports data from an ASCII file or an instrument.

This data is standardized

Then it is validated, calculated and adjusted.

The points and the chains are drawn.

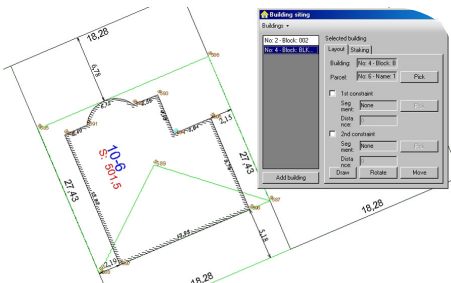Finally, the position of the parcel is determined on the plan.

All this is achieved in a continuous process

Geo-Plus VisionPlus — The software designed by surveyors for surveyors
A true assistant that accompanies you from the beginning of your work right to the end

BUILDING LAYOUT

The dynamic building layout is used to rotate or move a building. The setbacks are automatically adjusted. A layout box in offset is drawn around the building, showing the extremity points. When the position of the building is modified, all the elements are redrawn in the right place.
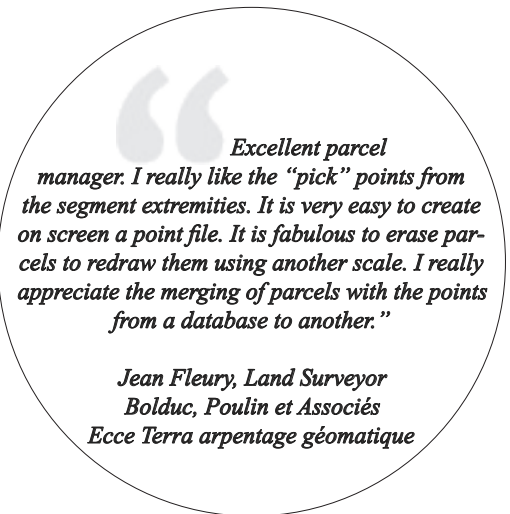

Building Layout Manager

DRAWING MANAGEMENT

◆ Drawing of points:
  - Graphic editing of points
  - Creation of points on graphic elements
  - Grouping of points
◆ Drawing of labels, lines and blocs considering the adopted drawing standard
◆ Drawing of parcels containing distances, directions, parcel numbers, areas and segments:
  - Geometry definition by picking on screen
  - Geometry definition by selecting segments
  - Easy updating after editing polygons
  - Grouping of parcels
  - Visualization of the points in the graphic environment
◆ Dynamic building layout
◆ Drawing of 2D or 3D chains
  - Grouping of chains
  - Crossing detection
  - Merging
◆ Drawing of alignments

COGO CALCULATIONS

The Cogo module offers a wide variety of geometric calculation functions, namely:

◆ Adjustment of straight lines, curves, points, lines, polygons and distances by the least square method
◆ Different types of adjustments: average point, curve by least square, line by least square
◆ Translation and rotation by the least square method and saving of the control points parameters
◆ Calculations by traverse and by inverse
◆ Intersection calculations
◆ Curve calculations
◆ Offset calculations
◆ Technical description
◆ Application of the combined factor to the dimensions
◆ Rotation and translation of points
◆ Area calculations
◆ Right-of-way calculations
◆ Line and alignment layouts
◆ Dynamic building layout

LAND DATA MANAGEMENT

The real strength of the land module lies within the many quality control tests that validate the land data at all points along the process. From the fieldbook or from an ASCII file, the data is standardized, validated and adjusted. When building the chains, they are also validated to generate a final plan. This data can easily by exported to the DTM software.

LAND DATA CALCULATIONS

◆ Recovery of land data and known descriptive data
◆ Detection of angle and distance errors considering permitted tolerances
◆ Detection of point number duplicates
◆ Detection of point codes that are not within the drawing standard
◆ Traverse adjustment by the Compass, Transit and least square methods

DATABASE

◆ Descriptive relational database Access 2000 and higher, from Microsoft
◆ Coordinate base with 16 significant digits
◆ Alphanumeric points (ie: 90KX0007, C75)

Geo-Plus VisionPlus is integrated to AutoCAD, MicroStation, PowerDraft and Bricscad Environments

CUSTOMIZATION

- Customization of insets and drawing standards
- Flexible settings on drawing objects such as points, alignments, chains, parcels and buildings
- Complete descriptive file settings
- Initialization settings that include the content of the initialization file (.ini) such as the drawing models directory, the descriptive file model and the drawing standard to use.
- Applying of constraints
- Customization of tolerance limits
- Parcel distance and area verification

DRAWING STANDARDS MANAGEMENT

Many standards are available to the user in order to respect all customer specifications. You can even create your own standards.

CONVERSIONS

- System coordinate conversions (UTM, MTM, SCOPQ, NAD83, NAD83(SCRS)NAD27)
- Coordinate format conversions to ASCII and binary (Eagle Point, XGO, GEM, Topos, Menarp)
- Unit of measurement conversion:
  - Distance conversion: meters, feet, french feet, english perch, US feet
  - Area conversions: square meters, square feet, square arpent, acre, hectare, US square feet
- Transparent exchange of topology structure with other SIG softwares
- Creation of a matching table enabling to transfer Pcodes from a standard to another
- Import of official and context data from the Natural Resource Ministry

CUSTOMERS

- Land surveying companies and land surveyors
- Civil engineer companies
- Construction companies
- Hydro-electric companies
- Government agencies and City offices

Geo-Plus VisionPlus is available in English and French.

MINIMAL REQUIREMENTS

One of the following CADs:
- AutoCAD
- MicroStation
- PowerDraft
- Bricscad
- IntelliCAD
- Processor: 500 Mhz
- Operating System: Microsoft Windows
- Hard disk space: 100 Mb
- RAM: 500Mb

GEO-PLUS

Since 1987, Geo-Plus develops software for surveyors, civil engineers and any professional working in land management fields. Its cutting-edge technology, the Vision series is constantly updated to meet specific customer needs from a wide variety of venues, from the young surveyor to major government agencies.
The Geo-Plus software, the Visionary software for geomatics.

SERVICES

TRAINING
- At Geo-Plus Training Center
- At client's office
- Through remote technologies
- In many academic institutions

The professionals from the Geo-Plus Training Center build each course to meet the specific customer needs in their day to day challenges.

WEBSITE
- Newsletters
- Success stories
- Complete customer list
- Software prices
- Software rentals with buying options
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CUSTOMIZED DEVELOPMENT
One of Geo-Plus' strength is the ability to develop programs that fits specific needs. Personalized modules can be developed quickly.

MAINTENANCE
The maintenance package includes updates and technical support. Technical support is provided by telephone, email, chat, using a screen sharing web solution, or through the FAQ or Forum section of our website.

Call us Today
Telephone: 1.800.672.1733
Fax: 1.866.635.7344
Email: vision-software@geo-plus.com
website: www.geo-plus.com

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