

Foresoft Pty Ltd

Corporate & Product Overview

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Company Background

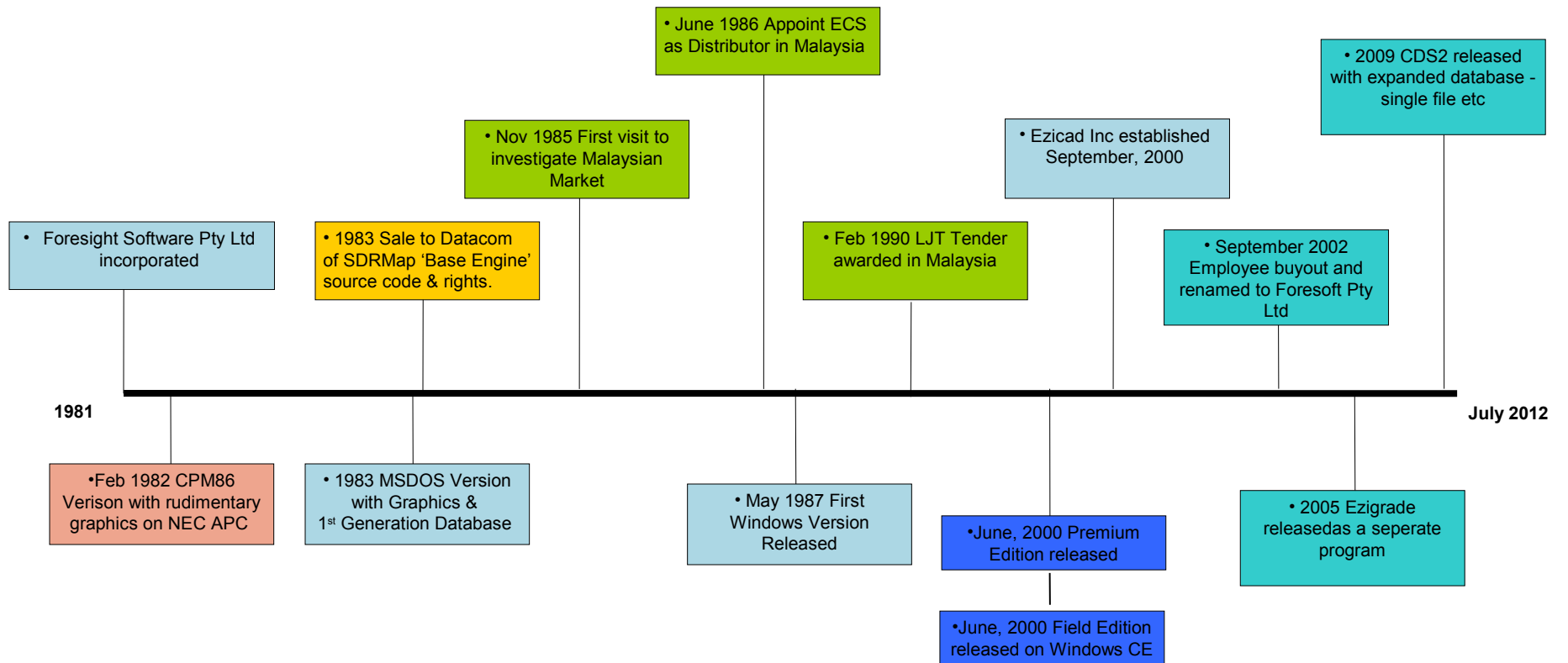
- **1981 Foresight Software commences**
- **1983 Provides 'Base Engine' which becomes SDRMap**
- **1986 Establish Malaysian Distributor**
- **1989 Submit Tender in Malaysia**
- **1990 Wins Tender for 110 Systems in Malaysia**
- **1995 Windows version**
- **1999 Windows CE version**
- **1999 Marketing focus shifts away from Asia due to continued Economic and Political instability.**
- **2000 enters US market with Ezicad Inc.**
- **2003 Sold to employee's and renamed as Foresoft**

- In 1923, the 'Saddingtons Group of Companies' was founded in Newcastle, Australia.
- In 1981, Foresight Software Pty Ltd founded as part of the Saddingtons Group to develop and market PC based software to improve effectiveness and productivity in the Civil Engineering, Construction and Surveying industries.
- In 1983, Foresight sold existing source code to Datacom, a New Zealand company, to provide the 'Base Engine' allowing speed to market for a software product eventually named and marketed worldwide as SDRMap and subsequently bought by Sokkia.
- In 1986, Foresight enters Malaysian Market and establishes local distributor and customized software version called TRPS
- In 1990, Foresight wins International Tender to supply 110 systems of TRPS to Malaysian Board of Surveyors - subsequently increased to over 1000 Licenses through process of specialized local support, training courses and regular upgrades.
- In 2000, Foresight enters US market with new customized software version called Ezicad, and establishes Ezicad Inc in New York to market and support software in the USA, Canada and South America.
- In 2003 Foresight is sold to existing employee's and renamed to Foresoft Pty Ltd.
- In 2012 Concerted push into Asia with dealer agreements signed for China, Hong Kong, The Phillipines and India.

Since its inception, Foresight has continued to develop and regularly upgrade the software to respond to improvements in computer technology, changes in field equipment and market practices and the growing expectations of clients.



Development Timeline - CDS



Case Study - Malaysian LJT Contract

Topographic & Route Processing System

- **CDS is the standard surveying software used in the Malaysian market**
- **Over 1000 licenses have been sold into Malaysia**



- In 1985, Foresight initiated contact with the Lembaga Jurukur Tanah (LJT) – loosely translated as Board of Surveyors - about the tender process for providing software for the Malaysian market
- In 1986, Foresight entered into a strategic cooperation and distribution agreement with ECS Computers Sdn Bhd (“ECS”) a computer supply company based in Kuala Lumpur with a view to producing;
- Customized software to suit needs of local surveyors and engineers
 - Customized product (known as ‘TRPS’) to meet the preliminary specifications sought by the Board of Surveyors
- In 1989, following 3 years of unofficial demonstrations by 30 companies, a formal tender process was enacted to which approximately 140 responses were received
 - Exhaustive process of formal demonstration from all tenders, evaluation and eventual short listing of 3 contenders who then underwent formal Benchmark Testing
 - In 1990, Foresight was awarded a contract for supply, installation and training for 110 licenses of TRPS software
 - Foresight responsible for all software development and upgrades as well as developing a syllabus and training materials
 - ECS responsible for local distribution and implementation of training
 - To ensure successful rollout and continuing sales from the Malaysian market, ECS and Foresight successfully marketed the benefits of the software to the remaining Malaysian surveyors resulting in over 1000 licenses sold to date
 - Foresight provides continuous upgrades, training and support to the Malaysian market via the internet, annual training seminars as well as continuous software upgrades and developments
 - Major universities and colleges in Malaysia have embraced TRPS as the standard surveying tool and provide training as part of their courses

General Overview

Field Proven Expandable Scalable

- **Field Proven**

- In daily use over 14 years

- **Expandable**

- Modular Design allows clients to increase processing capability as needs and budget allow.

- **Scalable**

- Database provides added capacity for the largest jobs
 - Open Database allows Clients to add value to existing data

Field Proven

From an early base in MSDOS, the program was re-written in 1987 as a Windows compliant program.

The Standard Database was designed and written 'in-house' specifically for processing spatial data.

Database updated in 2008. Will handle 2-3 million points.

CDS has been in daily field use for over 14 years, ensuring stability and trouble free processing.

Expandable

The 'Core Modules' of Utilities, Cogo, Model and Road which make up CDS have been tested and proven in a wide range of applications in many markets.

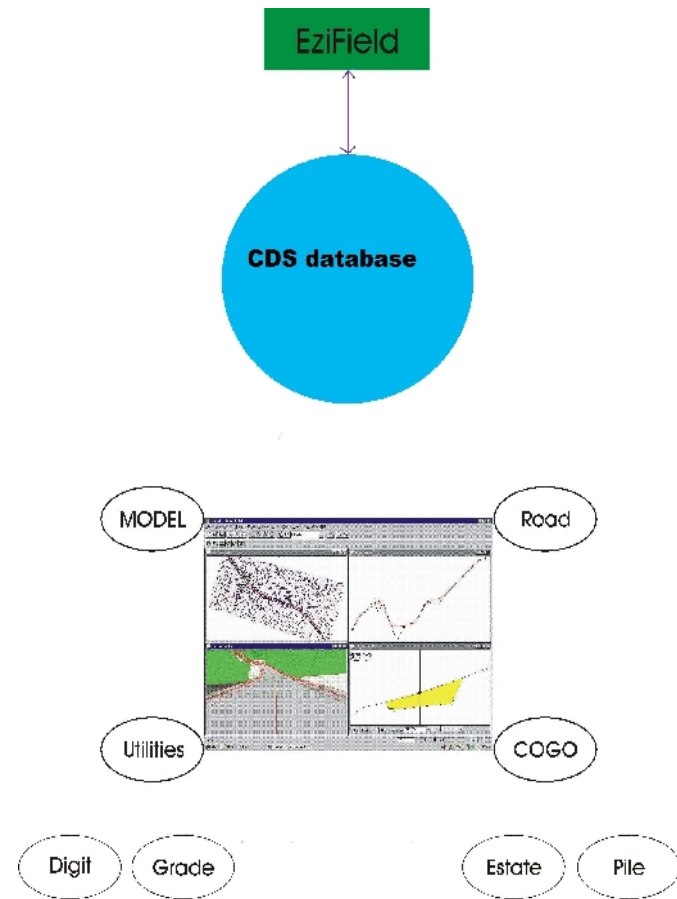
Additional spin off Modules/Programs to cater for specific 'vertical tasks' have been developed using consultants from the particular field to guide their design and usability.

All additional modules integrate fully with the Core Modules and share the same database.

The 'Field' component was commenced in 1998 to take advantage of the graphic capabilities of Windows CE, and development is ongoing to match advances in hardware.

Scalable

In addition to catering for 4 billion points per job, the Database also is GIS aware and allow's clients to include additional user defined attributes.



EziField Features

Model as you Measure

- **Direct interface to Total Stations – From Guppy to Robotic**
- **Interface to GPS – Both Survey and Mapping Accuracy**
- **Contour as you collect – no more re-visits to collect additional data. See the Contour model before you move the Instrument**
- **Coding – for GIS Asset management or Survey Feature Coding – user definable**

EziField

Model as You Measure

Control

Direct connection and control of the Total Station from the earliest Guppy through to the latest Robotic instrument.

Control your RTK GPS units – Base and Rover - direct from Ezifield

Collect

As the point is measured it is stored and displayed on the graphic screen providing instant visual verification.

Offset routines allow easy collection of inaccessible points.

Code

Feature Codes or Geo-Codes can be applied with a single 'tap' from a pre-defined library that you create to suit your specifications. Additional codes can be entered at any time

Contour

Form the model and contours in the palm of your hand, not matter what you use to collect the points.

See the contours before you attempt to move from the station to ensure you have sufficient points to define difficult features..

No more costly site re-visits

Map

You can 'string points' as you collect them to create Maps as you Measure.

Stakeout

Graphical display of required stake location speeds stake out in the field.

Design Points can be calculated 'in the hand' or transferred from the Desktop can be prepared on the desktop and taken to the field with.

Point Staked can be stored for QA purposes.



CDS Features

Value and Power

- **Cost Effective Combination** of most commonly used modules.
- **Utilities** – allows entry and transfer of manual and digital data including native DWG.
- **Cogo** – provides coordinate calculation and manipulation routines with specialized time savers for road and subdivision design
- **Model** – triangulate, contour, thematic height mapping and 3D views together with volume and profile/section interpolation.
- **Road** – vertical design of roads and other regular structures. Fast Graphic based input with 'intelligent templates and flexible output formats to suit all needs.

CDS

Value and Power

Utilities

The foundation is a set of Utilities to allow you to

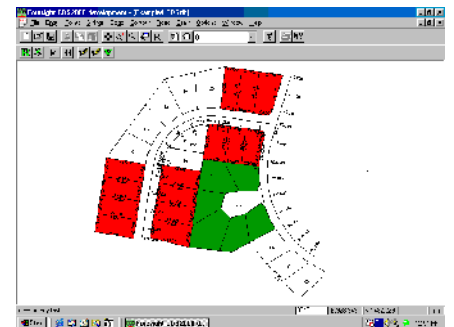
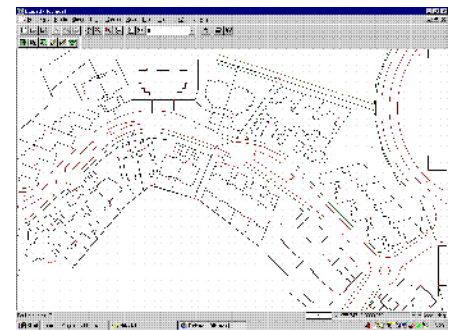
- ✓ Enter and reduce field data from traditional manual field and level books.
- ✓ Enter and store data from Electronic Total Stations, Levels and GPS Equipment,
- ✓ Import Coordinate files from other Design/GIS Software and DWG & DXF files from Drafting Software
- ✓ Define and apply Feature Codes to automatically 'string' points, allocate layers and place symbols based on user-defined codes.
- ✓ Translate, transform, scale and rotate points
- ✓ Adjust traverses
- ✓ Add points, lines, symbols, text and hatching to the 'job'
- ✓ Export Drawings (DWG & DXF) for use in Drafting Software
- ✓ Export Coordinates for use by Design/GIS Software and Total Stations/GPS equipment.
- ✓ Print/Plot the data at scale to any Windows compliant printer.

Building on this foundation, Ezicad is then made up by adding the following 3 modules;

❑ **Cogo** - coordinate calculations for all forms of coordinate geometry with specific routines to save time processing subdivision design and road layout in 2 or 3 dimensions, curves, spirals and intersections.

❑ **Model** – digital terrain modeling, contouring, thematic mapping of height ranges, volumes between surfaces and interpolation of profiles and sections from the model

❑ **Road** - vertical design of roads, railways, channels and other 'regular' structures, and the plotting of profiles and sections. Includes 'intelligent templates' incorporating conditional logic to react to changing ground conditions.



Foresoft – Expanded Application Modules

Applications on Target

- **Designed to Increase Efficiency in Specific Tasks**
- **Integrated with the “Core Modules”**
- **Sharing the Common Database**
- **Designed in consultation with specialist practitioners in the field**
- **Potential to quickly combine with specific instruments to create Total Solution packages for specific industries.**

❑ **Digitize** - allows efficient conversion of existing paper plans into digital format, in three dimensions where applicable using any Windows compliant digitizer (99% are). Specialized routines are provided to handle 'contours' as well as capturing plan details.



❑ **Grade** - routines used in 'land grading' applying least squares to determine a plane of best fit through existing irregular 3D points. Applicable for both general earthworks for the placement of building 'pads' as well as broad acre agriculture and irrigated agriculture. Can provide 'grids' from irregular points where needed. Implemented as a separate program.



❑ **Pile** - specialized routines for monitoring and preparing reports and plans showing the 'displacement' of 'as constructed locations' from 'design locations'. Pile cap 'symbols' can be created to allow efficient placement of standard pile layouts about a single point. Specifically designed for piling, but equally applicable to footings, holding down bolts or similar activity where it is important to maintain specified tolerances between design and 'as-built' locations. Separate program called Ezipile.



❑ **Estate** - routines designed specifically to improve the efficiency of housing or industrial estate design and layout. Proven to save large amounts of time where development comprises regular rectangular 'blocks' on a repeating grid pattern, and has been applied to the design of electrical substations.



❑ **Log** – not so much an additional module, but rather a stand alone package to provide efficient data entry and scaled plotting of borehole logs and geophysical data. Used by both exploration and production geologists, geotechnical engineers and borehole drilling contractors. Often combined with Model to provide contoured plans and estimated amounts of various sub-surface materials.

