

Field CE GIS



Advanced **GPS/GIS** Data Collection Software for Pocket PC PDA devices



Field CE GIS Supports

- ▶ Shapefiles and image data
- ▶ Detailed, colorful BaseMap background data
- ▶ Wireless GPS and other data collection
- ▶ Distance and Area measurements on the spot
- ▶ Interface with desktop GIS
- ▶ Offset points or Traverse points when GPS signal not available
- ▶ Images: load aerial photos or topo maps in the background
- ▶ Storage of GIS Feature, Attribute, and Value data
- ▶ Point/Line/Area symbol and pattern libraries
- ▶ Coordinate system conversion on the fly

Pricing

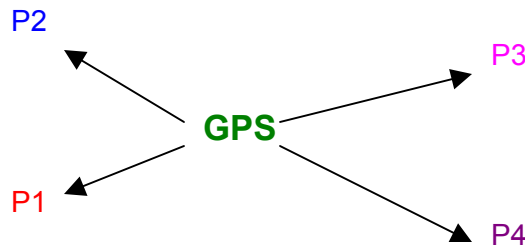
CMT Field CE GIS software: \$985.00 + S/H
 Bluetooth GPS Receiver: \$150.00 + S/H

Nested Points – A *must-have* powerful feature

Store Points along a Line or Area without “ending” the Line or Area Feature. For Example, map a road as a **dynamic line**, also record **traffic signs** along the road.

Radial Traverse - multiple ‘shots’ can be made from one GPS location

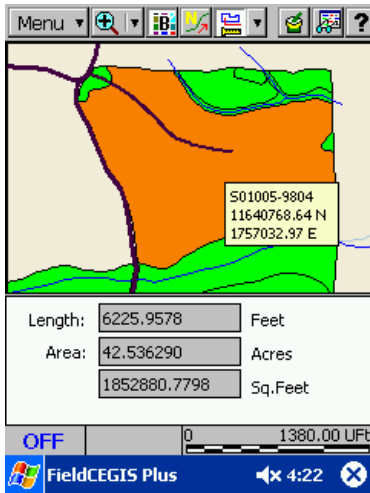
FROM → TO	SL. DIST	AZIMUTH
GPS → P1	120.00 ft.	241.30°
GPS → P2	126.50 ft.	288.80°
GPS → P3	87.00 ft.	72.00°
GPS → P4	112.20 ft.	107.50°



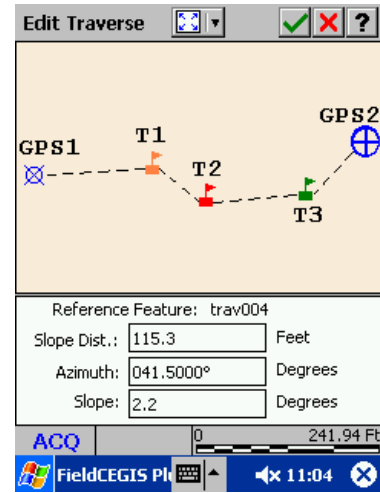
Highlights

- ▶ **Raster & Vector**
- ▶ NEZ Plane Support
- ▶ **Offset & Traverse**
- ▶ Nested Points
- ▶ Instant Coordinate update
- ▶ **Length & Area** Measurement
- ▶ NMEA-183 & **GPS raw data**
- ▶ **Heads-Up Digitizing**
- ▶ Real-Time & Post Process Differential
- ▶ LLA/UTM/SPC & **User Defined Coords.**
- ▶ **Logging Mode: By time, By Distance**
- ▶ Professional Integrated GPS/GIS

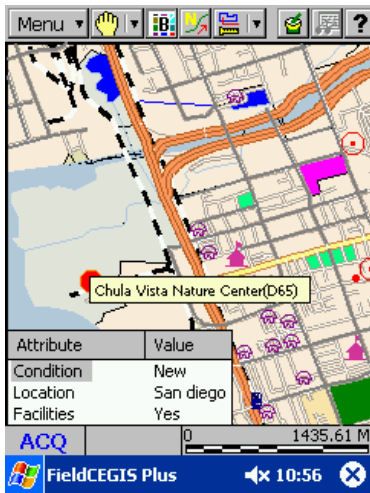
Click a button to show **length** and **area** for the selected feature



Traverse a series of points when GPS signal is not available



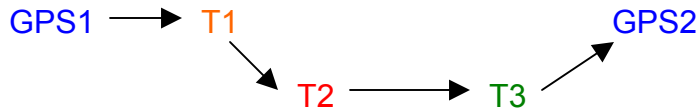
Field CE provides a complex **GIS database** on-board



Traversing – Available only from CMT

GPS OK at **GPS1**, but then GPS signal loss occurs. Enter traverse data from **GPS1 → T1, T1 → T2, T2 → T3, and T3 → GPS2**. Receiving GPS signal at **GPS2** lets you start GPS mode again.

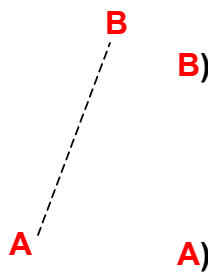
FROM → TO	SL. DIST	AZIMUTH
GPS1 → T1	100.70 ft.	97.30°
T1 → T2	91.50 ft.	130.00°
T2 → T3	133.00 ft.	85.00°
T3 → GPS2	115.30 ft.	41.50°



The NEZ Plane – A necessity in professional packages

Merge traditional Northings and Eastings on a local plane, with GPS data (latitude/longitude)

Pick any point on the survey and assign 1000N, 1000E as its coordinates. Go to that point and record a GPS position (shown at **A**). To produce the correct **orientation** and **scale**, pick one other point and record a GPS position (shown at **B**).



GPS Control: 44° 33' 30.168457" N
123° 18' 31.679077" W
NEZ Control: 1543.417N, 1024.9288E

GPS Reference: 44° 33' 24.79889" N
123° 18' 31.761475" W
NEZ Reference: 1000.000N, 1000.000E

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