DigiTerra
GIS Solutions

Reseller

Recent developments

- **SQLite geodatabase support (WKT and WKB formats)**
- **Web Map Service (WMS) and Tile Map Server (TMS) support**
- **Data synchronization with Dropbox**
- **3D view and TIN generation**
- **Rasterization and tile map generator to the map view**
- **Stakeout by the calculated position of the Sun**
- **Projection management: EPSG support, on-the-fly projection transformation**

Key features

DigiTerra Explorer is available in 3 editions at different price levels to meet divers customers' needs.

Function | Edition	Basic	Advanced	Professional
Area measurement and field data collection with GPS receiver	✔	✔	✔
Mobile AND desktop GIS within a single software	✔	✔	✔
Flexible, device-independent use, running on many mobile devices and handhelds: delivered on SD-card	✔	✔	✔
Fast graphical engine to process large raster and vector files	✔	✔	✔
Simple file formats: MAP, TAB, EXP, JPG	✔	✔	✔
Individually designed reports and maps	✔	✔	✔
Offline tile-based background maps	✔	✔	✔
Classification with thematic mapping toolkit: symbols, line types, patterns, colour palettes		✔	✔
General GIS file formats: SHP, MIF/MID, ECW, TIF, JP2		✔	✔
Web Map Service (WMS) and Tile Map Server (TMS) support		✔	✔
On-the-fly projection transformation		✔	✔
GPS camera solution: photo linking & geo-tagging		✔	✔
GPS navigation to target based on projected and geographical coordinates		✔	✔
Data synchronization with Dropbox		✔	✔
Support for mapping projects (DMP)		✔	✔
Advanced capabilities to run data analysis & make better decisions on the field		✔	✔
Wide range of standard formats: zipped SHP, DXF, DGN, TIN, SID, CADRG, ERS, PNG, BIL, KML, KMZ, GML, APN			✔
Data collection sheet, to be prepared with a simple wizard tool			✔
Relational data table connections			✔
SQLite geodatabase support: Open Geospatial Consortium (OGC) standard WKT, WKB formats			✔
3D view and TIN generation			✔
Raster orientation			✔
Wide range of topological editing tools (sampling, buffer zone, polyline and polygon divisioning, handling multipart features, multiselection tool) to maintain and verify existing data			✔
Surveying tools (rectangular and polar survey, distance and angle intersection, stakeout by the sun)			✔
Built-in NTRIP client, data collection for post-processing			✔
Integration with external sensors (laser range finder, cable locator)			✔
ESRI ARCGIS and Google Earth compatibility			✔

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Company background

DigiTerra Information Services Ltd, headquartered in Budapest, is a private company owned by the founder members. Based on their professional knowledge as forest engineers and a common interest in software programming, they got together as undergraduates to develop a GIS application which they called DigiTerra – Digital Earth. This was the cradle for a garage company founded in 1996.

The first business-driven task was preparation of a digital forestry map, followed by GIS-based production management software for forestry companies. Subsequent years saw the development of innovative, tailor-made GIS applications like the Land Parcel Identification System or the Ragweed Protection Information System.

As opposed to its competitors' applications, DigiTerra solutions are based on the revelation that all important farming processes in forestry or agriculture are connected to spatial registry. As a result, each development is based on digital maps; business processes are linked tightly to their geographical relations.

In contrast to slowly growing forests, DigiTerra Ltd quickly burgeoned, becoming a market leader in agro-geoinformation with products recognized as highly efficient tools of vector and raster geoinformatics. The latest result of this history is the international launch of DigiTerra Explorer 7, a competitive, out-of-the-box mobile GIS application.

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GIS Data Recycling Model

Data Preparation

• Import data from GIS systems:
  – Online background map services (WMS, TMS)
  – Offline map sources (various vector and raster formats)

• User defined data entry forms, code dictionary, attribute and map templates
• Customization without programming

Data Update & Publication

• GIS database update
• Export data to GIS systems and Google Earth
• Printing maps and reports, export to Microsoft Excel
• Sharing data on the Web
• Dropbox support

Data Maintenance & Collection

• Effective mobile GIS/GPS tool:
  – GPS/GNSS receivers (with 2-5 meters, submeter, decimeter or centimeter accuracy) for positioning and navigation
  – Integrated external sensors (laser rangefinders, cameras, cable locators)
  – Fast and easy data entry
• Rich GIS toolbox to maintain and verify existing data
• Advanced capabilities to run data analysis & make better decisions on the field

DigiTerra Explorer in action

Agriculture
• Area measurement for subsidy claim over 2500 farmers (Hungary)

Forestry
• Surveying of forest parcels damaged by storm 110 foresters in Styria (Austria)

Utilities
• Updating digital water and sewerage maps 50 surveyors in Antalya (Turkey)

Field data collection
• Surveying of wells and springs 70 supervisors (Polish Ministry of Health)

Archeology
• Researching dinosaurs' fossils 5 paleontologists (Portugal)

Environmental services
• Surveying and cataloging of protected plants 30 botanists (National Trust in the United Kingdom)

Authorities
• On the spot control of area based subsidies 450 officials (Hungarian Agricultural and Rural Development Agency)