Corporate Overview

**Founded**
- Founded in 1999 (1996) privately held

**Core Business**
- GIS integrated IT turnkey solutions
- 3D GIS, simulation and visualization software
- Large scale mapping
- Surveying, mapping and Civil Engineering software

**Products and Solutions**
- GeoERP is a GIS-based IT solution suite for the management of a country’s most viable resources
- 3D GIS – 3D GIS web-based/iPad Server solution
- CivilCAD – civil engineering software suite

**Worldwide Locations**
- USA, Israel, Canada, Romania, Nigeria, Zambia, Portugal, India, Belgium, China, Kenya, Ghana, Ethiopia, Uganda

**Solid Financial Backing**
- 15% Yearly Revenue Growth

**Strategic Relationships**
- Oracle Certified Partner
- Autodesk Authorized Developer
- Esri Geospatial Solutions for National Security
Target Markets

AEC
- Civil Engineering
- Surveying

UTILITIES & COMMUNICATIONS
- Water/Irrigation
- Sewage/Drainage
- Oil and Gas
- Electric
- Cables
- Telecommunications

GOVERNMENT
- Federal, State and Local Authorities
- Land Administration
- National Mapping
- Urban Planning
- Economic Development

TRANSPORTATION
- Roads and Highways
- Railways

3D-GIS
3D GIS in the Cloud
SIVAN DESIGN - APPLICATION

3D GIS in the Cloud: Data Representation

Using Embedded Z Value

2D Representation/Draped on terrain

3D Models

Extruded Features

SIVAN DESIGN - APPLICATION

3D GIS in the Cloud: Key Features

- Convert data/projects from 2D to 3D in few steps.
- Purely web application (3D GIS Studio, and 3D GIS Explorer) with no installation.
- Cloud computing approach.
- Viewing, Analyzing and Exploring in 3D.
- 3D Features.
- Support for the most common data formats and Geo-Spatial protocol.
- Available for iPad and mobile devices.
3D GIS in the Cloud: Data Sources - Creating the 3D World

- **Terrain** - GeoTiff, DEM or TIN
- **Raster** - GeoTiff, ECW
- **3D Native Models** – Collada, Sketch-Up, KML, Multi-Patch, OBJ
- **Existing GIS data** from:
  - Shapefiles
  - FileGDB
  - ArcSDE
  - ORACLE Spatial
  - SQL Server Spatial
  - Web Map Services

3D GIS in the Cloud: Main Purposes

- **City Planning**
- **3D Cadastre**
- **Upper and underground infrastructure**
- **Highways and roads**
3D GIS in the Cloud: Application Benefits

- Development control
- Web enabled for planning consent
- Design implications
- Animation
- Faster decision making
- Landscape integration
- Work efficiency and quality assurance
- Infrastructure Coordination
- Safety audits
- Undergound Infrastructure Coordination
- Traffic arrangements
- Spatial Parcels and Sub Parcels
- 3D boundary buffers
- Underground expropriation
- Level based topological rules

3D GIS in the Cloud: City Planning - Main Advantages

- Development control through 3D Visualization
  - Existing Vs. Design test-case scenarios
  - Billboards and Masts
  - Skyline effects
- Web Enabled
  - Support local governments in achieving planning consents with communities and industries
- Design Implications
  - Shadow analysis
  - Line of Sight Analysis
- Animation
  - 3D flythrough animations for various uses such as touring
3D GIS in the Cloud: Roads 3D GIS - Main Advantages

- **Decision Making Process**
  - Detailed 3D model of the designated road.
  - Real-time information per spatial object (land owner, zoning, etc.).
  - Birds eye view clearer for the non-technical.

- **Landscape integration**
  - Nature environmental costs .
  - Querying land culture.

- **Infrastructure Coordination**
  - Road affect on existing infrastructure.
  - Maintaining infrastructure safety buffers.

- **Safety Audits**
  - Line-of-sight and visibility region checks.

- **Work efficiency**
  - Automated quality assurance tests.
  - Reducing possible human errors.

3D GIS in the Cloud: Infrastructure 3D GIS - Main Advantages

- **Underground Infrastructure Coordination**
  - Avoiding breakdown maintenance
  - Efficient preventive maintenance
  - Collision free planning

- **Design**
  - 3D Layers inspection
  - Slopes and minimum distances
3D GIS in the Cloud: Cadastre 3D GIS - Main Advantages

- Upper and Underground Cadastre
  - Spatial lot, parcel, and sub-parcel.
  - Displacement distances.
  - Spatial registration plan.
- 3D boundary buffers – of spatial lots, parcels, and sub-parcels.
- Underground expropriation - of spatial lots.
- Level based topological rules - as a result of subterranean space changes.

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