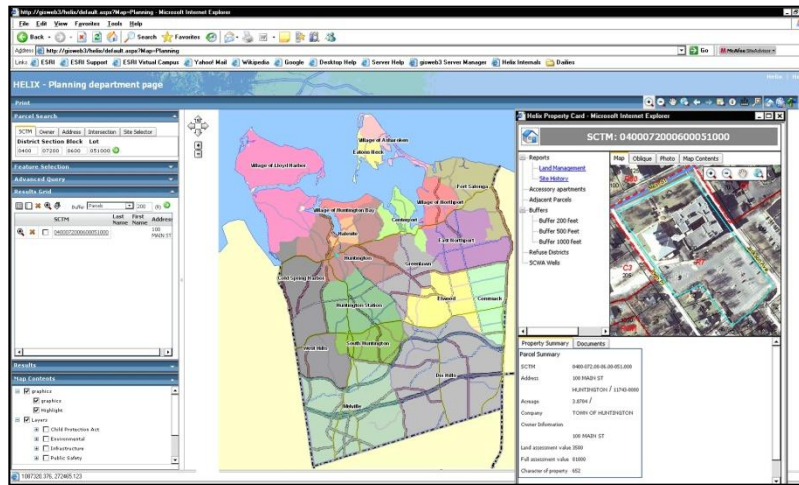


Town of Huntington ArcGIS Server Upgrade

GPI

Asset Management / GIS



Client/Owner: Town of Huntington
Project Location: Huntington, NY

The Town of Huntington expanded the use of GIS throughout Town Hall by upgrading its GIS system with the use of ESRI's ArcGIS server technology. Greenman Pedersen, Inc. (GPI) assisted in this expansion by implementing an ArcGIS Enterprise Server version 9.3 as well as a web based application for the Town of Huntington.

GPI developed a common GIS architecture that will be the backbone of the Town's GIS for several years. The core of the system is ArcGIS Enterprise server running on SQL server 2005, Windows 2003 server and Microsoft .NET. The initial task focused on implementing the Hardware/ Software Foundation of the solution. It included configuring and delivering three servers to run ESRI's ArcGIS server products. The next task was to develop the Data Foundation of the solution, where the Town's existing Govern database and Suffolk County Parcel Layers were folded into the enterprise ArcSDE Geodatabase structure. The final stage of this project was to develop a GIS web portal using ArcGIS server for both Town personnel and the general public access the Town's GIS.

GPI used ArcGIS server technology to consolidate and streamline the Town's GIS applications and datasets into a cohesive structure. Under this project, GPI has designed an enterprise database for the Town. All feature classes in the Town have been organized and loaded into an SDE database. Custom server tools have been written using ArcObjects, Python scripting and Microsoft .NET to automate data loading processes into the SDE instance.

The GIS portal is available for several different town departments. Each department has its own customized page with relevant data and tools. Tools developed include:

- Simple and Advanced Searches
- Radius Map
- Custom Results Grid
- Printing and Reporting
- Parcel Based Document storage, including Property Photos
- Integrated Oblique Imagery
- Integrated Street Level Imagery

There is also a limited Internet accessible module for use by the general public. The application was written using ESRI Web Advanced Development Framework (ADF) and Microsoft .NET. This module runs on a separate server outside the Town firewall and is updated nightly using advanced data replication techniques to ensure data consistency.

These GIS portals serve as the primary means to access to the hardware and database foundations and will also provide flexible building blocks for additional functionality in the future.