

Creating a Web-Based GIS Data Sharing Network for the Southern Tier Central Region

Dave Bubniak, STCRPDB

Project Vision/Charter

- Create a data warehouse for three county region
- Reduce/eliminate duplication of effort
- Have one authoritative data set centrally located

Project Stakeholders

- Soil and Water Districts
- Local and county government GIS staff
- Consultants
- Local and county government officials

Project Deliverables

- Build database model and method of incorporating different data sets into one
- Build model and set up infrastructure with future growth in mind
- Set up the infrastructure with ArcGIS server and SQL server
- Web application for non GIS users
- Data download site

Technical Components

- Centralized GIS data warehouse (ArcSDE and SQL Server 2008)
- Geodatabase model
- Centralized access to data via simple web application (ArcGIS Server)

Geodatabase Model

Five initial data sets:

- Parcels (required standardization)
- Street centerlines
- Boundaries
- Hydrography
- Orthophotos

Web Application

- Simple easy to use
- Flexible, expandable for future operations
- Ability to select and download data
- Designed and implemented using Esri ArcGIS Server technology (9.3.1 Flex API)

Web Application

Data Set Name	Description	Originator	Date
Parcels	This layer combines parcel data from Chemung, Schuyler and Steuben counties. The schema of each county's parcel data varies, therefore all fields are not fully populated.		
Centerlines	This layer combines centerline data from Chemung, Schuyler and Steuben counties. These are NYS ALIS centerlines.		
County Boundaries	This layer combines county boundary data from Chemung, Schuyler and Steuben counties.		
National Hydrography Dataset	This geodatabase contains 3 layers from the National Hydrography Dataset - Hydrography Area (NHDArea), Hydrography Line (NHDLine), and Hydrography Waterbody (NHDWaterbody).		
Municipal Boundaries	This layer combines municipal boundary data from Chemung, Schuyler and Steuben counties. This layer includes city, town and village boundaries.		
State Boundaries	This layer combines state boundary data from New York and Pennsylvania.		

[STC GIS Portal](#)

Next Steps/Phases

- Local government data integration
- Expand uses of existing web application for transportation, asset management, etc.
- Give GIS users in region ability to upload data to site
- Create specific web apps for specific users

Questions and Answers



Thank You For Your Time!!

*Dave Bubniak, GIS Specialist
STCRPDB
(607) 962-5092 Ext. 210
gisstc@stny.rr.com*

*Jeffrey Volpe, GISP
Bergmann Associates
(800) 724-1168 Ext. 874
jvolpe@bergmannpc.com*

