

GIS Partnership Summaries

Partnerships are an important way to enhance the usefulness and share the development of GIS and geospatial data sets. It is the Coordinating Body's desire to encourage the formation of partnerships and provide this page as a forum for other users to learn of their benefits. This page is being provided as that forum to allow the GIS community to post summaries of their GIS Partnerships. Partnership summaries are intended to foster the creation of new partnerships by providing examples of real world experiences and lessons learned.

A template for a short Partnership Summary, which describes a partnership and provides enough information for readers to contact someone knowledgeable about the partnership, is provided as a [downloadable document in rich text format \(rtf\)](#). Please submit your summary to the nysgis@dhses.ny.gov. Keeping the format uniform isn't meant to discourage creativity. Rather, it allows the reader to compare partnerships rapidly, and it allows the organization that is maintaining the summaries to perform a minimal level of quality control. Providing a summary for publication indicates that the author's organization is willing to exchange information about their partnership, and that resources are available to support this exchange. Publication of a summary on this page does not imply the endorsement of the New York State GIS Coordinating Body.

Currently, partnership summaries are intended to describe existing partnerships. The way new partnerships are proposed and promoted is still to be determined. Partnership summaries provide a description of currently existing models, or models of partnerships that have worked in the past, and they are organized as such on this web page. Currently existing summaries are further divided into those partnerships that are actively seeking new partners, and those that are not. We would ask if you submit a summary for an ongoing partnership that you also maintain this summary on a periodic basis.

In addition to the Partnership Summaries, a new Compendium of Community Models for GIS Development was established in the Summer of 2003. The Quality Communities Initiative demonstrates New York State's commitment to working with local government leaders and community organizations to find smart, innovative solutions to strengthen our economy and environment, and improve the quality of the place we call "home." For more information, please visit: <http://gis.ny.gov/coordinationprogram/reports/qualitycom/>.

New Partnerships - 2009

Ongoing Partnerships

These Partnerships are Open to New Partners:

[Adirondack Forest Preserve Unit Management Planning](#): The Forest Preserve consists of millions of acres of public land in the Adirondack Park divided into units and managed by the NYS Department of Environmental Conservation. The goal of this five-year project is to facilitate planning for the Adirondack Forest Preserve using Geographic Information Systems. Stewardship of each unit is guided by a Unit Management Plan (UMP), a document within which natural and cultural resources, stresses on those resources, and present and potential recreational facilities are identified, and recommendations are made to ensure that these resources are not compromised. *(September 2004)*

[Columbia Land Conservancy, Inc. \(CLC\)](#): In 2004, CLC expand the verification and collection of the data used for the map by working with conservation organizations operating within the eight counties and municipalities located within each of the counties. The goal of this partnership is to create and maintain an accurate data set for recreational and conservation lands open to the public in the eight county region. The purpose of the data collection was to produce a map depicting the recreational and conservation lands open to the public and to analyze the distribution of these lands. *(September 2005)*

[Empire State Development's NYSiteFinder Application](#): NYSiteFinder is being deployed by Empire State Development to facilitate the site selection process in New York State. In partnership with local and regional economic development agencies, utility companies, commercial realtors, and other economic development professionals, we are able to provide a most extensive and current inventory of industrial sites and buildings. Properties are linked to interactive mapping, providing over 50 layers of GIS data. *(March 2003)*

[Environmental Health](#): Since environmental health problems are complex and often operate at multiple scales they are often difficult to understand. Timely, accurate, and integrated spatial information is a critical component of environmental health literacy. Our partnership is building a secure online spatial data library to combine information from multiple organizations and to share that information policymakers and community-based organizations. We will demonstrate the benefits of improved literacy through pilot projects in the East and Central Harlem neighborhoods of New York City. *(October 2006)*

[Erie County's Dissemination of GIS Data and Technology to Municipalities](#): The long-term partnership between the Erie County Soil and Water Conservation District and the USDA Natural Resources Conservation Service (formerly the Soil Conservation Service) was recently expanded to include a shared staff person with Erie County's Department of Environment and Planning. This shared position will reinforce efforts to coordinate dissemination of GIS data and technology to municipalities throughout Erie County. It builds

on earlier efforts to promote GIS through the USDA sponsored "GIS and Conservation Technologies" AmeriCorps team that was based in the East Aurora Service Center over a two year period. *(September 2002)*

Erie Niagara Intermunicipal Agreement for Shared GIS Services: The Agreement was developed out of a mutual interest between Erie and Niagara counties to develop and maintain GIS programs in the most cost effective manner. The goal is to provide the staff and residents of both counties with high quality geospatial services while saving money through sharing of GIS infrastructure and geospatial applications. *(September 2008)*

Finger Lakes National Forest (FLNF): A number of stakeholders have advocated strongly for the preservation of forest stands containing old trees, but a current map of the oldest forest stands on the FLNF and adjacent lands does not exist. We developed a collaborative project with the Environmental Studies Program and the Finger Lakes Institute at Hobart and William Smith Colleges, Friends of the Forest, the Finger Lakes Land Trust, the US Forest Service, and Finger Lakes Forest Watch to map patches of old forest in the FLNF and surrounding lands between Seneca and Cayuga Lakes. *(October 2006)*

2006 GIS Partnership Award

Geospatial Information Technology (GIT) Education: The GIT Ahead project focuses on workforce preparation in Geospatial Information Technology (GIT) fields through teacher professional development, educational software development, and provision of internships, job shadowing, and career preparation experiences for high school students in urban and rural schools. GIT represents a broad category of tools that are becoming increasingly available to help with regional problem-solving, but there is a shortage of technicians trained to apply these tools. *(October 2006)*

Integrated Border Enforcement Teams (IBET): The IBET GIS Work Group was formed to support IBET's mission of securing the US/Canadian border by facilitating partnerships such as the Land Use/Land Cover (LULC) Project. The LULC data and the partnerships developed through this project will support a joint Common Operational Picture (COP) that involves multiple law enforcement agencies. This partnership will deliver a unique set of LULC data that spans the US/Canadian border. *(September 2004)*

Interactive Mapping Gateway: Statewide Digital Orthophotography Application: The Statewide Digital Orthophotography Application is a statewide data set featuring enhanced image quality and compressed file formats; advanced internet mapping capability centered around accessing digital ortho imagery with a substantial level of geographic guidance; and, a sound internet application that can be transferred to other public entities in order to significantly reduce start-up costs associated with developing inter- or intranet mapping capability.

Map, Analyze, Plan: Upstate New York [M-A-P:UNY]: The purpose is to make Real Property land use and housing condition information more universally available, and usable, to neighborhood preservation companies and rural preservation companies throughout upstate New York as well as to the county agencies responsible for planning and real property tax administration. *(updated September 2006)*

New York City Area Consortium for Earthquake Loss Mitigation (NYCEM): The United States Geological Survey's National Seismic Hazard Mapping Project indicates a moderate earthquake hazard in the New York City metropolitan region. However, little is known to date concerning the nature and extent of losses which would result from a large or even a moderate size earthquake. NYCEM was established in 1998 to conduct loss estimation studies, which will provide a framework for developing appropriate, cost effective mitigation strategies to reduce this risk. In addition, loss estimates will enable disaster preparedness planners with a better understanding of the likely post event conditions on which to base their plans.

New York City's GIS Coordination Program: The New York City GIS Coordination Program has been spearheaded by the NYC Department of Information Technology and Telecommunications and their GIS Director. The goal of DoITT's program was to develop an integrated approach to the development, distribution, and use of data in New York City Government. A major portion of this partnership includes the development of the GIS Utility project, which creates a central database (also referred to as a spatial data warehouse) for key spatial data layers that would be of use to all City agencies and the public. The GIS Utility integrates important GIS layers with business critical databases from different City agencies. This allows agencies to tie their business data to GIS base layers to perform powerful analyses efficiently, using the most current and relevant data available in the City. The effectiveness of the GIS Utility is directly related to the type and amount of data in the system. Given this, the success of the project success depended heavily on the cooperation and coordination of nearly every agency in New York City.

2001 GIS Partnership Award

New York City's Urban Forest Program: A strong GIS partnership has developed between the New York City Department of Parks & Recreation (NYC DPR), the U.S. Forest Service Northern Research Station (USFS NRS), and the University of Vermont through the New York City Urban Field Station, a joint initiative of the US Forest Service and New York City Parks. A central purpose of this partnership is to apply geospatial technology to improve the understanding of New York City's urban forest through analysis, data sharing, education, and cooperation. The partnership was originally founded to analyze NYC's urban forest during the development of PlaNYC 2030. Since PlaNYC's inception the partnership has expanded to include everything from mapping stewardship groups to educating the next generation of geospatial professionals. The Urban Field Station promotes natural resource stewardship and ecological literacy in New York City and supports research on the ecology, dynamics and benefits of the urban forest. *(September 2008)*

2008 GIS Partnership Award

New York Ocean and Great Lakes Atlas: Environmental Conservation Law Article 14 - the New York Ocean and Great Lakes

Ecosystem Conservation Act created the New York Ocean and Great Lakes Ecosystem Conservation Council made up of nine state organization heads. Section 14-0111, part 4 of the Act calls for creation of "...an ocean and coastal resources atlas to make information available to the public and decision makers". This project resulted in a web mapping application that delivers information on ocean and coastal resources to the public and decision makers. *(September 2008)*

Open Accessible Space Information System: The Open Accessible Space Information System (OASIS) in New York City is a coalition of more than 40 nonprofit organizations, government agencies, businesses, educational institutions, and individuals. Its centerpiece is the first citywide website that enhances environmental stewardship by providing a common, free, online, spatial data inventory. The OASIS website helps people see and understand their neighborhoods by visualizing data through mapping over the Internet. It makes information available to communities that cannot afford expensive mapping tools and/or access the complex pool of government and private sources of spatial data necessary to understand and plan for open space. *(September 2004)*

2004 GIS Partnership Award

Regional Application Center for the Northeast (RACNE): RACNE was created to increase the potential for Earth system science data to become integrated into local decision making, thus increasing the potential for successful climate variability coping strategies and mitigation efforts throughout the Northeast. Using NASA satellite imagery, the RACNE will initially focus on hydrologic/hydraulic impacts of climate variability in the Finger Lakes Region.

River Area Council of Governments (RACOG): The River Area Council of Governments has appointed an ad hoc committee to address issues pertaining to recreation. The committee has embarked on a project to document existing pedestrian trails within the Villages of Carthage and West Carthage. With the assistance of Carthage Central High School students enrolled in the Introduction to Geographic Information Systems (GIS) course, the committee will develop recreational maps to promote a more walkable community and to provide opportunities for recreational activities that will enhance the quality of life of all residents. *(September 2005)*

2005 GIS Partnership Award

Shared Adirondack Park Geographic Information CD-ROM Version 1.0: The "Shared Adirondack Park Geographic Information CD-ROM version 1.0" assembles Adirondack Park geographic information from a broad set of disciplines and makes it easily available for improved park planning. From school children to graduate researcher, from town planner to county and state planners - it is the hope of the participants that the Adirondack Park will benefit greatly from the improved accessibility of this information.

Southern Tier West Regional Planning and Development Board's Community GIS Project: Community GIS provides GIS capacity to local governments utilizing the internet. These are small rural communities that cannot implement GIS on their own because of cost, personnel, and time issues. Community GIS overcomes those barriers by providing GIS capacity through a cooperative effort. *(September 2002)*

St. Lawrence County Resource Sharing GIS: This informal partnership was born out of the need for GIS development in St. Lawrence County, New York. By combining the knowledge and resources of governmental and academic institutions this large but rural county with limited GIS staff resources can make greater, more efficient progress in developing and disseminating spatial data. *(September 2002)*

State-of-the-Art Public Access Training and Production GIS Laboratory: The GIS Laboratory was created to deliver fully equipped, public access, production/training GIS laboratory and regional environmental database. It was also formed to meet the needs of local governments, schools and communities to develop sound land use planning capability and decision making at the local level.

2000 GIS Partnership Award

Suffolk County Orthoimagery: Purpose was to find money to pay for the additional costs of the higher resolution upgrade for the 2007 NYS Digital Orthoimagery for all of Suffolk County. The goal was to secure a total of \$454,000 from multiple government agencies within Suffolk County that requested the need for higher resolution imagery. Suffolk County was not prepared to foot this bill alone and a partnership solution was sought. *(September 2007)*

Tidal Wetland Restoration, South Shore Estuary Reserve (Long Island, New York): New York's Department of State (DOS), Division of Coastal Resources, is working with partners to develop a comprehensive wetland restoration plan for Long Island's south shore estuary. The estuary is a large coastal embayment complex encompassing over 25,000 acres of estuarine and pallustrine wetlands. The objective of conducting the comprehensive restoration plan is twofold: 1) identify a long term restoration goal for tidal wetlands and wetland-dependent fish and wildlife resources, by quantifying the total amount of potential wetland restoration acreage; and 2) identify and characterize specific site restoration requirements. Both objectives are being achieved using GIS spatial analysis, based on newly developed digital data sets.

Tug Hill Commission GIS Cooperative: The purpose of the Tug Hill Commission GIS Cooperative is to share the NYS Tug Hill Commission's relative wealth of GIS resources (hardware, software, data and staff) with government and not-for-profit agencies in the North Country region that lack the budget and/or personnel to implement GIS themselves. Deliverables consist of data analysis and hardcopy maps produced for specific projects undertaken by Cooperative members.

Tug Hill Commission GIS Starter Kit Program: The Tug Hill Commission GIS Starter Kit Program was developed for the purpose of sharing the Commission's relative wealth of GIS resources (hardware, software, data and staff) with local governments in the North Country region that lack the budget and/or personnel to implement GIS themselves. Because this a large and very rural portion of the

state, local governments without GIS resources are common. The Tug Hill Commission GIS Starter Kit Program is intended to empower these governments and the communities they serve with GIS capacity. *(March 2003)*

2003 GIS Partnership Award

USGS and New York City DOITT: USGS approached New York City DOITT, Citywide GIS regarding anticipated Home land Security requirements for the August 2004 Republican National Convention (RNC) to be held in Madison Square Garden. This opportunity also would allow USGS to advance its *National Map* initiative while NYC-DOITT was able to use USGS funding along with additional City funding to expand orthoimagery acquisition for all 5 Boroughs. Other ongoing City GIS activities were enhanced for GIS data creation in the central Manhattan area. *(September 2004)*

★ **Using LIDAR and GIS to Study Flood Plains and Erosion, and to Predict Failure Potential along the Banks of the Mohawk River:** This project was an exemplary success of partnership between a NYS department (DEC) and an academic institution (Union College). This project was only possible with this partnership because DEC provided LIDAR files of the Mohawk River watershed that Union College had no access to. The realized savings from this partnership is immeasurable as Union College does not have the resources that can be used to acquire the data that DEC freely provided. We at Union College are certainly thankful and appreciative. *(September 2009)*

These Partnerships are not Currently Open to New Partners:

Cortland County's Economic Development GIS: The partnership between the Cortland County Planning Department and the Business Development Corp./Industrial Development Agency (BDC/IDA) in the City of Cortland utilizes GIS to assist in enticing new business and industry into the county. The GIS data and maps generated by the County Planning Department are used by the BDC/IDA to create a positive economic climate within the county for new and existing businesses and residents. *(September 2002)*

Crime Mapping and Analysis - Operation IMPACT: Crime analysis for tactical and strategic policing is critical to the success of New York State's Operation IMPACT — the statewide comprehensive crime reduction program. For participating police departments, a key component of the program is the continuum of development and support for crime mapping and analysis provided through a partnership between DCJS and the University at Albany's School of Criminal Justice. *(September 2005)*

Interactive Parcel and Tourism Viewers: This is an ongoing partnership between Cattaraugus County and Southern Tier West Regional Planning and Development Board. The partnership was formed to create two interactive ArcIMS viewers. One viewer to showcase all the tourist attractions located throughout the county, and the other to show all the Real Property data associated with all the parcels throughout the county. *(September 2003)*

★ **New York Statewide Digital Orthoimagery Program (NYS DOP):** The goal of the NYSDOP is to deliver consistently high quality orthoimagery and other related products in a manner which offers economies of scale combined with flexibility to customize for localized needs. To meet these goals, CSCIC, as the contract holder, has worked in partnerships with numerous Federal, State, County, and Local government agencies. In turn, these partners have formed partnerships of their own to pool resources. Most of the following focuses on financial aspects of partnerships, but the data and knowledge sharing portions of these partnerships have been very valuable. *(September 2009)*

2009 GIS Partnership Award

NYC Watershed Protection Program Tax Mapping Project with Watershed Counties: This project developed out of mutual interest on the part of the City of New York Department of Environmental Protection (NYCDEP), the State Office of Real Property Services (NYSORPS), and many of the eight NYC Watershed counties to develop digital tax maps in a consistent format.

NYS Department of Health's Public Water Supply Spatial Data Collection Project: The purpose of establishing this partnership is to establish a means of collecting spatial information regarding public water supplies. Water supply information collected includes accurate locations for water sources, other facilities and water districts from the over 11,500 public water supply systems in New York. *(September 2002)*

2002 GIS Partnership Award

Schoharie County's Emergency Management Project: This project seeks to reduce the impact of future flooding by bringing a higher level of accuracy and detail to flooding analysis and prediction. As a result of flooding in 1996 and a Federal Disaster Area declaration, funding became available which the New York Power Authority (NYPA) and Schoharie County were able to leverage to enhance emergency management by using digital mapping as a base for a semi-automated flood forecast model. Additional outcomes include better hazard mitigation through land use planning and coordination of emergency decisions including a "reverse 911" system.

Watershed Boundary Dataset(WBD): The Watershed Boundary Dataset (WBD) is the creation of a consistent, seamless, and hierarchical watershed boundary dataset based on topographic and hydrologic features following the "Federal Standards for Delineation of Hydrologic Unit Boundaries" for consistent watershed coverage across the nation. WBD will contain 10 and 12 digit hydrologic unit boundaries. *(October 2006)*

Completed Partnerships

St. Lawrence County's Biomass Inventory Project: The goal of the biomass inventory project was to identify the location and quantity of land areas within St. Lawrence County suitable for grass and woody biomass resource production. These areas

were identified using soil type, elevation, wetland, land use, and real property assessment data from a variety of federal, state and local sources. *(September 2008)*

[Geographic Information Systems Electric Utility's Emergency Reporting Project](#): The purpose of the project was to provide the 7 major electric companies in New York State and the Department of Public Service (DPS) with an integrated tool to allow DPS to receive, process, analyze, and report electric outage data quickly and in a uniform format during emergency outages. The information is then disseminated to other agencies to assist in deployment of essential resources and services. The partnership was necessary insure that the information provided met the needs (content and format) of the agencies that respond to emergency events at the State Emergency Operations Center.

[Response to North Country Ice Storm '98](#): When days of freezing rain resulted in up to four inches of ice accumulated over northern New York State, leaving 21,687 miles of state, county and town roads impassible and more than 320,000 residents without power, multiple agencies worked with the State Emergency Management Office to assess, update and convey information relating to the emergency for coordinated disaster management.

[Rockland County's Emergency Response Planning](#): Rockland County and State officials have developed detailed emergency response plans for the area within 10 miles of the Indian Point Nuclear Power Plants, and have previously relied solely on a publication entitled "Planning for Emergencies" to disseminate the emergency plans to the public. The Partnership's goal was to improve the quality of outreach to Rockland County residents by providing a regularly updated website, with an easily accessible way for users to obtain emergency plans specific to their street address. Thus, the Indian Point Interactive GIS Mapping System was created, a vast improvement for residents who previously relied on having to figure out their emergency information from a small scale printed map enclosed in "Planning for Emergencies". Partnerships were necessary to bring the technical GIS expertise of the Rockland County Planning Department (the County's lead agency in GIS development) and consultants, Intelligent Decisions Systems Inc., together with the funding and emergency planning expertise of the Rockland County Office of Fire and Emergency Services. *(March 2003)*

[Schenectady Internet Mapping Systems \(SIMS\)](#): To foster economic development and community revitalization projects in Schenectady County by enabling municipal and economic development organizations to better manage and analyze geographic information. The goal is to provide partners with convenient access to a powerful GIS with data and functions pertinent to economic development and community revitalization projects. *(September 2003)*

[Suffolk County GIS Consortium for Color Digital Aerial Photography](#): A Suffolk County consortium of GIS users determined that a current digital image map base covering the entire land area of the County would provide benefits to many agencies, particularly those with responsibility in the areas of planning, public safety and public works. A Suffolk County aerial photography contract, in spring of 1996, resulted in a digital image map base of County-wide 1"=1200' scale scanned and registered digital photography (2.5 ft pixel). The goal was an improved, 1999, 1"=1000' scale, one foot pixel, color digital aerial photo base-map which can be digitally positioned under data sets for use with GIS products such as MapInfo and ArcView.

[Web Hosting](#): This was a Pilot project to determine the usefulness of having a GIS Web Hosting Service accessible for county and local government. The pilot included the development of an online GIS application by a private vendor as well as web hosting services for 4 local governments for a one year period. The focus for the application is to support everyday business uses for people accessing/utilizing parcel (land records) data. *(October 2006)*

[West Carthage Volunteer Fire Department](#): Providing GIS services to a small community volunteer fire department to map fire hydrant locations as a color-coded document to be carried in every village emergency vehicle as well as distributed to neighboring fire districts. The goal of this project was to provide immediate, accurate information to drivers of emergency response vehicles as to the size and location of fire hydrants within the village proper. *(September 2007)*

[2007 GIS Partnership Award](#)

[Year 2000 Emergency Preparedness Task Force](#): In early 1999, New York State established a Year 2000 Task Force on Emergency Preparedness to ensure its readiness to be able to react to any potential crisis caused by Year 2000 (Y2K) related issues. Building on previous emergency management experiences, GIS was seen as essential to locating facilities affected by power outages, identifying and tracking deployed resources, and communicating the magnitude and interrelationship of problems. In order to provide this GIS support, a 20 person GIS Unit, composed of staff from 10 State agencies, was established.

GIS Partnership Summary

Using GIS to Assist Inventory in Adirondack Forest Preserve Unit Management Planning

Partnership Purpose and Goal:

Using GIS to Assist the Inventory Portion of the Adirondack Forest Preserve Unit Management Planning Process.

The goal of this five-year project is to facilitate planning for the Adirondack Forest Preserve using Geographic Information Systems. The Forest Preserve consists of millions of acres of public land in the Adirondack Park divided into units and managed by the NYS Department of Environmental Conservation. Stewardship of each unit is guided by a Unit Management Plan (UMP), a document within which natural and cultural resources, stresses on those resources, and present and potential recreational facilities are identified, and recommendations are made to ensure that these resources are not compromised.

Under the auspices of this project, a Consortium of partners from universities, state agencies, and non-governmental organizations have gathered with the intent of aiding the natural resource inventory portion of the Unit Management Planning process. Consortium partners are collecting and organizing data needed to guide state land planning using one standardized GIS, and analyzing and interpreting the data to produce maps and new datasets. The result will be a coordinated approach to better land use planning in the Adirondacks.

The project goal includes four objectives:

- *Assemble the GIS database.* Establish a collection of data layers from diverse sources.
- *Provide interpretation and analysis.* Offer GIS, ecological and statistical expertise.
- *Maintain a data library for future users.* Ensure high-quality, well-documented, consistent data that is compatible with existing DEC databases and flexible for inclusion of data in the future. Provide data documentation (metadata) including the description, age, scale, and original creator of the data.
- *Provide technical support to DEC planners.* Enable the planners to focus on planning rather than the finer points of using GIS software.

GIS enables public land planners to look at multiple scales. Additionally, new inventory information can be included in the GIS as it is collected. Because each unit has a unique set of natural resources and potential users, for each unit the questions will be different. The GIS can be used to ask questions such as “what is the erosion potential for three options for the location of a new trail?” and “How far from a campground are the locations of rare plants, animals, and habitats at risk of degradation/disturbance?”

Participants and Resource Contributions:

Partner Organization	Contribution	NYS GIS Data Sharing Coop
Adirondack Council	Provide comment/insight on planning process, <i>2020 Vision</i> series on land planning	N
Adirondack Ecological Center/SUNY Environmental Science and Forestry	Provide personnel, office space, data and technical expertise	Y
Adirondack Nature Conservancy/Adirondack Land Trust	Provide personnel, technical expertise, and data	Y

Adirondack Park Agency	Provide data, technical expertise	Y
Association for the Protection of the Adirondacks	Provide comment/insight on planning process	N
Audubon Society - New York Chapter	Provide data, technical expertise	Y
NYS Department of Environmental Conservation	Provide funding, data, technical expertise, and data archive/repository in the DEC GIS servers and the Master Habitat Data Bank GIS	Y
University of Vermont, The Rubenstein School of the Environment and Natural Resources	Provide data, technical expertise	N
NYS Natural Heritage Program	Provide data, technical expertise	N
NY Gap Analysis Project, Cornell University	Provide data, technical expertise, and CUGIR data repository	Y
Wildlife Conservation Society	Provide data, technical expertise	N

Time Frame

Date Partnership Began: November 2003

Completed: No

Deliverables:

The partnership is one of the primary deliverables – it will enable better use of time and resources for many kinds of land use and planning needs in the Adirondacks.

Non-sensitive data layers, digital maps, sets of map symbols and other standard cartographic elements, and other products will be available through the NYS Department of Environmental Conservation. Original creators of datasets reserve the right to share data.

Brief Summary of Partnership:

The project has been a great success in bringing scientists, GIS analysts, and land planners together. Through the Adirondack Ecological Center, DEC planners have access to specialists who can interpret data layers in ecology, hydrology, and myriad other disciplines. In addition to DEC GIS staff, planners also have GIS experts available to assist them in proper application of GIS technology. Datasets that were maintained in many different formats are now standardized, and tools such as cost path analysis and site planning will enable DEC planners to evaluate management alternatives more easily and efficiently. Finally, the state can expect future savings in time and cost of maintaining one streamlined system (scheduled UMP updates are to be every five years).

Consortium membership has benefited partners via better communication between the various interests in the Park. The Consortium developed a Memorandum of Agreement that specifies conditions under which data shall be shared. Sharing is essentially one-way: the Adirondack Ecological Center will maintain the GIS database for the duration of the project, and any partner wishing to obtain another partner's data must ask the data originator directly. Sharing sensitive data is always a concern, and some information, such as specific locations of rare species, will remain protected. Frequently, simply knowing what data exist helps partners' individual efforts.

A critical feature of the process is the restriction of decision-making to the DEC. UMP-GIS Consortium members agree to provide information without advancing any agenda for public lands management. The DEC planners have been charged with making the

decisions about facilities in the Forest Preserve, and that responsibility remains in their hands throughout this project.

The partnership is ongoing and as such the Consortium continues to strive for the project goal of improved public lands planning. After less than a year, the project's success in sharing data and improved inventory information is demonstrable. In addition to continued data collection and analysis, GIS training will be a key element of the second year of the project.

Additional Information Available On-line : <http://www.esf.edu/aec/research/ump.htm>

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GIS Partnership Summary

Data collection for Recreational and Conservation lands

Partnership Purpose and Goal:

This partnership was originally formed in 2001 between Columbia Land Conservancy, Inc. (CLC) and Don Meltz GIS and Planning. Don Meltz was contracted by CLC to collect data on the location, size, ownership and other details of the recreational and conservation lands open to the public in Columbia County and the surrounding seven counties including Albany, Berkshire (MA), Dutchess, Greene, Litchfield (CT), Rensselaer, and Ulster. The purpose of the data collection was to produce a map depicting the recreational and conservation lands open to the public and to analyze the distribution of these lands. Don Meltz annually updated and maintained the data set and map until 2004 when CLC began to maintain the data set and map with their own GIS.

In 2004, CLC expand the verification and collection of the data used for the map by working with conservation organizations operating within the eight counties and municipalities located within each of the counties.

The goal of this partnership is to create and maintain an accurate data set for recreational and conservation lands open to the public in the above specified eight county region.

Participants and Resource Contributions:

Since 2001 data has been contributed by the following partners: (* indicates Data Sharing Cooperative Members)

Don Meltz Planning and GIS - Columbiaville, NY
Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Executive Office of Environmental Affairs
Connecticut Office of Policy and Management, Connecticut Department of Environmental Protection, Environmental and Geographic Information Center
New York State Geographic Information System Clearinghouse Data Sharing Cooperative*
New York State Department of Environmental Conservation*
Columbia County Soil and Water Conservation District*
Catskill Center for Conservation and Development*
Dutchess Land Conservancy*
Open Space Institute*
The Scenic Hudson Land Trust*
The Nature Conservancy*
Albany County Land Conservancy
Dutchess County Department of Planning and Development
Mohonk Preserve
New York/New Jersey Trail Conference
New York State Office of Parks, Recreation and Historic Preservation Rensselaer-Taconic Land Conservancy
Rondout-Esopus Land Conservancy
Cornwall Conservation Trust
Housatonic River Walk
Stockbridge Land Trust
Mass Audubon
City of: Catskill, Cohoes, and Rensselaer*
Town of: Austerlitz, Ashland, Barkhamstead, Beacon, Becket, Beekman, Bethlehem, Canaan (CT), East Fishkill, Egremont, Fishkill, Germantown, Hurley, Hyde Park, Kinderhook, Poughkeepsie, Rhinebeck, Schodack, Stuyvesant, Watertown, Woodbury
Village of: Catskill, Kinderhook and Schaghticoke, Torrington

Date Partnership Began: 2001

Completed: On-going

Deliverables:

Annually, an updated data set is created of recreational and conservation lands open to the public in Columbia County and the surrounding seven counties including Albany, Berkshire (MA), Dutchess, Greene, Litchfield (CT), Rensselaer, and Ulster. The maps are also available on paper in 18" x 24" or 36" x 48" in color. A lo-res version is also on CLC's website.

Brief Summary of Partnership:

This partnership has been formed by non-profit conservation organizations, municipalities, government agencies and private industry. Not all of the municipalities and government agencies have responded to data requests. It is sometimes difficult to get the data needed within the time frame that we update the map (January of every year is when we begin to collect data from the previous year and our deadline for completion is April). Working on this map has put us in contact with many GIS professionals operating in the same region. We have come to expand on this partnership with OSI, DLC and Scenic Hudson a great deal for day to day GIS and GPS support.

Additional Information Available On-line: <http://www.clctrust.org/regmap.htm>

Contact Information:

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GIS Partnership Summary: Empire State Development's NYSiteFinder Application

Partnership Purpose and Goal

NYSiteFinder is being deployed by Empire State Development to facilitate the site selection process in New York State. In partnership with local and regional economic development agencies, utility companies, commercial realtors, and other economic development professionals, we are able to provide a most extensive and current inventory of industrial sites and buildings. Properties are linked to interactive mapping, providing over 50 layers of GIS data.

Participants and Resource Contributions

- **Empire State Development** -- project coordination and funding.
- **Keane Solutions** -- prime contractor for development of the system's software and functionality.
- **Hundreds of economic development professionals** from across the state input and maintain data on sites and buildings. Participants include state agencies, regional and county economic development organizations, industrial development agencies, commercial realtors, utility companies, railroads, real estate developers, and individual property owners.

Through the NYSGIS Clearinghouse, data from various state agencies is obtained and used on the site.

Time Frame

Date Partnership Began: June 2001

Completion Date: On-going

Deliverables

Over 50 layers of GIS information are available on the system. In addition, through the use of the filtered web link, local economic development organizations can access the interactive mapping and GIS data from their website. An external GIS link has also just been added to the system.

Brief Summary of Partnership

To date the partnership has worked very well. The data available through the Clearinghouse enables site selection consultants and corporate real estate professionals from around the world the ability to conduct detailed analysis on locations in New York State.

The local economic development community in NYS has been very cooperative in entering information on sites and buildings into the system. Over one thousand properties and the attendant GIS data can be viewed on NYSiteFinder.

Additional Information Available On-line

http://www.nylovesbiz.com/NY_SiteFinder

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Information last updated: March 5, 2003

GIS Partnership Summary

Environmental Health Library

Partnership Purpose and Goal:

Problems in environmental health cross traditional jurisdictional and disciplinary boundaries. Since environmental health problems are complex and often operate at multiple scales they are often difficult to understand. Timely, accurate, and integrated spatial information is a critical component of environmental health literacy. Our partnership is building a secure online spatial data library to combine information from multiple organizations and to share that information policymakers and community-based organizations. We will demonstrate the benefits of improved literacy through pilot projects in the East and Central Harlem neighborhoods of New York City. These demonstration projects will use the library in designing effective solutions to urban environmental problems.

Participants and Resource Contributions

U.S. Environmental Protection Agency, Region 2

Rabi Kieber, Sustainability Coordinator, Office of Policy and Management

The Sustainability program at EPA Region 2 is interested in creating opportunities for community-based projects designed to increase the both the health of East and Central Harlem residents as well as the physical environment. Region 2 has contributed resources to support the development of the virtual library and part of the 'eco-building block' component which focuses on on-the-ground improvements to the neighborhood streetscape.

Columbia University School of Dental Medicine

Dr. Ira Lamster, Dean

Dr. Stephen Marshall

The Mailman School of Public Health at Columbia University

Dr. Mary Northridge, Associate Professor

Dr. Northridge has contributed her expertise in developing frameworks and models which support a multi-disciplinary and multi-scaled approach to urban planning, public health and well-being. She has helped to identify, build and sustain a diverse team of project partners.

The University of Vermont Spatial Analysis Lab

Jarlath O'Neil-Dunne

The lab is contributing its technical expertise and computer software equipment to create an user friendly library and a framework for viewing, storing and contributing to multi-scaled and multi-disciplinary datasets.

The New York City Department of Health and Mental Hygiene, East and Central Harlem District Planning Health Office

Dr. Andy Goodman

Dr. Cindy Gordon

Dr. Anjali Talwalkar

The District Planning Health Office (DPHO) has contributed local expertise on public health and the environment, specifically focusing on ways to overcome historical barriers and to support programs which are more community-based, accessible and multi-generational. The DPHO has been a host for meetings and has joined in neighborhood outreach.

The New York City Department of Parks and Recreation

Jennifer Greenfeld, Director, New York Tree Trust

Lisa Rosen, Trees for Public Health Coordinator

The New York City Parks Department Trees for Public Health project is a community-based partnership to develop 'green' plans for increasing the number and viability of urban trees in communities with significant public health issues related to the physical environment. The project is contributing staff time to coordinate community sessions, collect local data and present information to decision-makers.

The USDA Forest Service, Northern Research Station

Dr. J. Morgan Grove, Social Scientist

Erika Svendsen, Social Science Researcher

The Forest Service is interested in understanding how resources such as trees and open space as well as social programs can be helpful in improving the lives, livelihood and legacies of urban populations. Specifically, the Forest Service researchers are contributing their time to participation in the on-going development of the data framework, community roundtables and support for the urban 'eco-building block' project.

The State University of New York at Buffalo, Department of Geography and the National Center for Geographic Information Analysis

Seth Spielman, NSF IGERT Fellow in Geographic Information Science

Seth Spielman is the former director of the Columbia University Graduate School of Architecture Planning and Preservation GIS Lab. As a student employee of the United States Forest Service Seth Spielman will be compiling data sets for the data library.

The National Park Service - River, Trails and Conservation Assistance

Jerry Willis, Project Director

Contributing technical and community organizing support regarding issues related to neighborhood participation, open space and access to environmental resources.

Date Partnership Began: August 2006

Completed: No

Deliverables:

This project includes four deliverables. The first deliverable, a spatial data library, is the GIS component of this partnership. The second, third, and fourth deliverable help translate the library into improved environmental decision making. The data library will be developed in three phases between August 2006 and August 2007. The library uses an ArcSDE backend with an Internet interface and will allow users to access information through direct download or a series of map templates and analytical models. The geodatabase will be completed in December 2006. Library "patrons" and "authors" will be taught how to use the library through web-based tutorials and in-house training sessions between December 2006 and August 2007.

The second deliverable is a series of community roundtables. The purpose of the community workshops is to provide users in targeted communities with training on how to utilize the interactive features of the library. Workshop participants will be asked to bring a specific project idea related to public health and the environment.

The third deliverable is a pilot tree planting program for one 'eco-block' which will include cluster plantings within street tree 'strips' to increase storm-water retention and increase canopy cover.

The fourth deliverable is a design competition to elicit design scenarios for eco-blocks.

Brief Summary of Partnership:

The general health of East Harlem's residents ranked in the bottom 25% of all NYC neighborhoods. Their children are hospitalized for asthma at greater rates than almost anywhere else in the country, and almost twice as much as in the average NYC neighborhood. In addition, one quarter of people living in East Harlem are obese and all residents are 2 times as likely to die from diabetes as the average New Yorker. Put together, poor health in East Harlem resulted in thousands of years of potential life lost and one of the highest death rates in New York City. We hope that integrated source of information on the conditions in East and central Harlem will help stimulate and extend efforts to improve these conditions.

The organizations that make up this partnership have been working in parallel in East and Central Harlem for number of years. The member organizations have data sets, contacts, as well as technical skills and expertise. Through the virtual spatial data library the partnership will collate these data sets and where possible capture technical skills and expertise into analytical GIS-based models. We currently have high resolution datasets describing land-cover, the urban built environment, networks of health providers, and the prevalence of childhood asthma. We hope to have this information integrated and online in a number of months.

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GIS Partnership Summary

Erie County's Dissemination of GIS Data and Technology to Municipalities

Partnership Purpose and Goal

The long-term partnership between the Erie County Soil and Water Conservation District and the USDA Natural Resources Conservation Service (formerly the Soil Conservation Service) was recently expanded to include a shared staff person with Erie County's Department of Environment and Planning. This shared position will reinforce efforts to coordinate dissemination of GIS data and technology to municipalities throughout Erie County. It builds on earlier efforts to promote GIS through the USDA sponsored "GIS and Conservation Technologies" AmeriCorps team that was based in the East Aurora Service Center over a two year period.

Participants and Resource Contributions

- **Erie County Soil and Water Conservation District** - software, hardware, partial funding
- **Erie County Dept. of Environment and Planning** - software, hardware, partial funding
- **USDA Natural Resources Conservation Service** - software, hardware, partial funding

Time Frame

Date Partnership Began: July 2002

Completion Date: On-going

Deliverables

Data dissemination and technology transfer.

Brief Summary of Partnership

For many years the East Aurora Field Office of the USDA Natural Resources Conservation Service (NRCS), the Erie County Soil and Water Conservation District (ECSWCD) and the Erie County Department of Environment and Planning (ECDEP) have informally shared data and supported each other's GIS needs. For two years, this informal relationship was supported by the efforts of a USDA sponsored AmeriCorps "GIS and Conservation Technology Team." This team helped develop and assemble many of the data sets that remain part of the base data used by all three agencies, which have been widely distributed to public and private users throughout the region, and are used in the County's web page: www.erie.gov/maps.

ECSWCD and ECDEP have entered into a contract to bring on a GIS analyst, shared between the agencies and housed at the ECSWCD/NRCS office. The partnership efforts have been formalized with the objective of providing all municipalities in Erie County the opportunity to involve themselves in internet-based GIS. Additionally, the partnership expects to assist municipalities in setting up and maintaining their own local GIS operations if needed. The objective of the partnership is to provide public officials and departments within local municipalities with GIS access while enabling the sharing of necessary applications, data and training.

Additional Information Available On-line

<http://www.erie.gov/maps>

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GIS Partnership Summary

Erie Niagara Intermunicipal Agreement for Shared GIS Services

Partnership Purpose and Goal

The **Erie Niagara Intermunicipal Agreement for Shared GIS Services** developed out of a mutual interest between Erie and Niagara counties to develop and maintain GIS programs in the most cost effective manner. The goal is to provide the staff and residents of both counties with high quality geospatial services while saving money through sharing of GIS infrastructure and geospatial applications.

Participants and Resource Contributions

The Erie Niagara Shared GIS Services project is supported by the NYS Shared Municipal Services Incentive (SMSI) program. The project received a \$305,000 SMSI grant to fund the installation of a high-speed microwave network connection between Erie and Niagara Counties. Installation and testing of the microwave link was recently completed. This microwave connection will support sharing of GIS data and applications between the two counties, and will also be used for sharing of public safety information.

The Erie Niagara Shared GIS Services project recently received a second SMSI grant to extend the partnership to all local governments within the two counties.

At the participant level, Erie County provides an enterprise-level GIS infrastructure to Niagara County, hosts the Niagara County spatial data and applications, and maintains a suite of GIS servers and applications to support the GIS programs of both counties. Niagara County provides annual funding to Erie County to help sustain the GIS infrastructure, and shares spatial applications that are being developed by the Niagara County GIS team and consultant.

Time Frame

Date Partnership Began: January 2008

Completion Date: On-going

Deliverables

The Intermunicipal Agreement covers these major areas of GIS cooperation between Erie and Niagara Counties:

1. Enterprise geodatabase hosting- Erie County hosts Niagara County's geodatabase and provides direct access to it from Niagara County departments.
2. General assistance on geospatial issues- sharing of information and advice on GIS issues.
3. GIS emergency assistance- agreement on providing GIS "mutual aid" in the event of a disaster, including equipment and staffing.
4. Internet/ Intranet mapping- Erie County will host up to 8 sites for Niagara County, with additional fees for additional sites.
5. Sharing of custom GIS applications among similar departments within each county.
6. Off-site storage of geospatial data- each county will store the GIS critical infrastructure data for the other county, to be used as disaster backup.

Brief Summary of Partnership

On January 1, 2008, Erie and Niagara Counties entered into a five year Intermunicipal Agreement (IMA) to share Geographic Information System (GIS) services. Erie County has been developing and supporting a GIS program for many years, and has invested in a robust GIS infrastructure. Niagara County has recently recognized their need to begin implementing a similar enterprise- level GIS program. Under the terms of the IMA, Niagara County will be able to take advantage of Erie County's GIS knowledge and infrastructure to rapidly build their GIS program at a significantly reduced cost compared to implementing a stand-alone system.

A \$305,000 SMSI grant was awarded in 2006 to fund the installation of a high-speed microwave network connection between Erie and Niagara Counties. This microwave connection will support sharing of GIS data and applications between the two counties, and will also be used for sharing of public safety information. Erie County will host Niagara County's GIS data and applications, which reduces the need for Niagara County to invest in and maintain this technology. In return, Erie County will receive annual payments from Niagara County, which will be used to maintain and enhance the Erie County's GIS program and infrastructure.

The Intermunicipal Agreement for Shared GIS Services covers 6 major areas:

1. Enterprise geodatabase hosting- Erie County hosts Niagara County's geodatabase and provides direct access to it from Niagara County departments.
2. General assistance on geospatial issues- sharing of information and advice on GIS issues.
3. GIS emergency assistance- agreement on providing GIS "mutual aid" in the event of a disaster, including equipment and staffing.
4. Internet/ Intranet mapping- Erie County will host up to 8 sites for Niagara County, with additional fees for additional sites.
5. Sharing of custom GIS applications among similar departments within each county.
6. Off-site storage of geospatial data- each county will store the GIS critical infrastructure data for the other county, to be used as disaster backup.

The Erie and Niagara Counties Shared GIS Services Program is projected to save over \$900,000 in GIS and public safety related expenses over the five year term of the agreement. The Shared GIS Services Program received an award from the New York State Commission on Local Government Efficiency and Competiveness as a model program for intergovernmental cooperation.

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GIS Partnership Summary

Old Forest Preservation



2006 GIS Partnership Award Winner

Partnership Purpose and Goal:

Concern over how to preserve tracts of old forest in the Finger Lakes National Forest (FLNF) has been a key issue in the recent revisions to the FLNF's management plan. A number of stakeholders have advocated strongly for the preservation of forest stands containing old trees, but a current map of the oldest forest stands on the FLNF and adjacent lands does not exist. We developed a collaborative project with the Environmental Studies Program and the Finger Lakes Institute at Hobart and William Smith Colleges, Friends of the Forest, the Finger Lakes Land Trust, the US Forest Service, and Finger Lakes Forest Watch to map patches of old forest in the FLNF and surrounding lands between Seneca and Cayuga Lakes. A central focus of this project, in addition to developing and ground-truthing a map of old forest, is building a strong foundation for continued collaboration among forest planners and managers, faculty and students, and community stakeholders who have not previously worked together.

Participants and Resource Contributions:

Environmental Studies Program, Hobart and William Smith Colleges
US Forest Service, Finger Lakes National Forest
Friends of the Forest
Finger Lakes Land Trust
Finger Lakes Forest Watch
Finger Lakes Institute, Hobart and William Smith Colleges
Institute for the Application of Geospatial Technology
Mid-Hudson Service Learning Institute for Watershed and Environmental Studies

Date Partnership Began: June 2004

Completed: No

Deliverables:

Deliverables are in the form of increased spatial thinking ability and facility with GIS and GPS technology among all partners and a field-verified map of areas of old trees in the FLNF region.

Brief Summary of Partnership:

Our partnership began in mid-2004, when Friends of the Forest, a grassroots environmental community organization, and the Finger Lakes Land Trust, a not-for-profit conservation organization, began talking about overlap in their interests in well-thought-out forest land conservation in central New York. Using historical land use data provided by the US Forest Service, representatives from the Friends group and the Land Trust developed maps of the National Forest, modeling areas of oldest forest growth, an analysis never previously performed by the Forest Service. Inspired by the power of GIS for this analysis, the Friends group representative assembled a team consisting of herself, a college student, and an environmental studies professor at Hobart and William Smith Colleges (HWS). In June 2005, the Mid-Hudson Service Learning Institute for Watershed and Environmental Studies awarded our team a grant to attend the Conference on Remote Sensing Education run by the Institute for the Application of Geospatial Technology in Auburn NY, where we developed a community-service, GIS-mapping project for a college environmental studies seminar. This initial project design was further refined in discussions with Finger Lakes National Forest staff and the GIS specialist at the Finger Lakes Institute. Working with their collaborators, the HWS seminar students used GIS to analyze historic aerial photographs spanning more than sixty years. The resulting map of areas continuously forested since the mid-1940s was shared with regional land conservation organizations and the FLNF staff, contributing to forest management decision-making processes. Currently the project is in preparation for field work to ground-truth the aerial photograph-based mapping.

Additional Information Available On-line:

<http://fji.hws.edu/gitahead>

www.iagt.org/corse

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GIS Partnership Summary

Geospatial Information Technology (GIT) Education

Partnership Purpose and Goal:

The GIT Ahead project focuses on workforce preparation in Geospatial Information Technology (GIT) fields through teacher professional development, educational software development, and provision of internships, job shadowing, and career preparation experiences for high school students in urban and rural schools. Our country's workforce lacks the expertise needed to take advantage of new technologies that enable businesses, government agencies and private individuals to make informed, data-driven decisions about regional issues. GIT represents a broad category of tools that are becoming increasingly available to help with regional problem-solving, but there is a shortage of technicians trained to apply these tools.

The goals of the GIT Ahead Project are to:

1. Provide teachers with ongoing professional development focused on science teaching and learning and Geospatial Information Technology (GIT)
2. Engage teachers in interdisciplinary teams to develop project-based lessons and units that focus on significant environmental issues in the Finger Lakes region
3. Create the Internet-based Finger Lakes GIS Explorer software based on existing professionally-used technologies at the Institute for the Application of Geospatial Technology (IAGT)
4. Engage high school science students in Finger Lakes watershed-focused inquiry projects using the Finger Lakes GIS Explorer software and desktop-based GIS
5. Provide high school students with visions of career possibilities through participation in GIT lessons and units, summer internships, and job shadowing opportunities
6. Provide pathways for rural and urban high school students to enter the GIS Associate's Degree program at Cayuga Community College and/or see geospatial technology as a viable career option
7. Develop collaborative relationships among organizations, institutions, and businesses in the Finger Lakes Region who have a vested interest in the regional GIT workforce and its capacity

The ultimate goals of the GIT Ahead project are a) to help rural and urban high school students envision careers using geospatial technologies, and b) to create higher education pathways for students who might not otherwise pursue such goals, especially those in lower track science courses. These goals will be accomplished through teacher professional development and a series of student learning opportunities focusing on GIT as outlined above.

Participants and Resource Contributions:

Finger Lakes Institute - FLI is a regional center dedicated to the promotion of environmental research and education about the Finger Lakes region of upstate New York. James G. MaKinster will facilitate the overall management of GIT Ahead, provide oversight at the Finger Lakes Institute, and focus on teacher professional development. The GIT Ahead Project Manager Karen Edelstein serves as the central contact person for this project in addition to facilitating the summer institute, school-year workshops, and ongoing professional development needs of participating teachers. The GIS Specialist at the Finger Lakes Institute and will provide ongoing support for this project. Marion Balyszak will provide regional content, and logistical expertise and oversee relevant activities that occur within the Finger Lakes Institute. Geoscientist John D. Halfman will provide scientific expertise and will direct the field-based, inquiry-driven portion of the summer institute. New York State Data Sharing Cooperative Member

Cayuga Community College - Dr. Abu Badruddin at CCC teaches portions of the GIT Ahead summer institute, coordinate CCC's summer GIS program to incorporate area teachers and students, and facilitate the progression of interested high school students from area schools to CCC and subsequently into higher institutions that have articulation agreements with CCC's GIS program.

Cornell University - Nancy Trautmann collaborates on the project design and management, directs the curriculum development aspects of the project, and is responsible for leading internal evaluation and facilitating collaboration with the external evaluator. As Director of Cornell University's Environmental Inquiry (EI) and Cornell Science Inquiry Partnerships (CSIP) programs, Ms. Trautmann has over 15 years experience conducting and evaluating science outreach programs for high school teachers.

Institute for the Application of Geospatial Technology at Cayuga Community College - Dana Piwinski at IAGT will oversee the development of the Finger Lakes Explorer and IAGT's summer internship program, and he will work with other lead personnel to identify and address opportunities and challenges as they arise. IAGT also employs: a *Curriculum Extension Specialist* who provides professional development support and serves as a project liaison to the GIT Ahead staff, a *Technical Assistant* who supervises the high school student summer internships, and two *Software Development Specialists* who are doing

the computer programming necessary for the Finger Lakes GIS Explorer. New York State Data Sharing Cooperative Member.

New York State GIS Association - The New York State Geographical Information Systems Association has agreed to identify potential internship and job shadowing sites in specific towns, cities, and other areas when needed. Students and teachers will have specific mechanisms they can use to request job shadowing or internship placements through the GIT Ahead website and project manager. We are also working to partner with other regional associations with similar capacities and interests. New York State Data Sharing Cooperative Member.

Date Partnership Began: June 2006

Completed: No

Deliverables:

This project will establish relationships among a network of partners poised to provide training and opportunities to teachers and students throughout the Finger Lakes Region. The Educational Division of the Finger Lakes Institute will build on these relationships and sustain them by offering similar professional development opportunities after the life of the proposed project. The FLI will be able to provide one or two day and in-school workshops for teachers interested in GIT within its current operating budget and will seek to expand these opportunities with additional permanent staff in the future.

Materials produced by this project will include a series of stand-alone tutorials for use of GIS in the classroom, the curriculum modules designed by participating teachers and project staff, case studies highlighting the results of student projects, and the Finger Lakes GIS Explorer software. These materials will be made available through the project website and on CD. The resources developed through this project will be entered into DLESE and NSDL databases, making them broadly available to the STEM education and GIS communities. Curricular materials also will be disseminated via professional meetings of NSTA, NYS GIS, ESRI, GSA, and similar organizations, and through various publications.

The Finger Lakes GIS Explorer will be made available to teachers throughout the region at low cost. The best way to encourage large numbers of teachers to adopt and use technological tools is to make these tools inexpensive, easy to access, simple to use, and curricularly supported.

Brief Summary of Partnership:

The GIT Ahead project has established collaborative relationships among these organizations, institutions, and businesses in the Finger Lakes Region with vested interests in the regional GIT workforce and capacity. These relationships will be sustained and built upon throughout and beyond the three year length of this project because of the vital role they will play in helping the collaborating organizations to fulfill their workforce development goals. The mission of the Finger Lakes Institute entails collaborating with colleges, universities, governmental bodies, and community groups throughout the region to promote interdisciplinary research and education about the Finger Lakes and surrounding watersheds. Thus FLI is well poised to foster and continue building GIT Ahead collaborations during and beyond the life of the proposed project.

Additional Information Available On-line:

<http://fli.hws.edu/gitahead>

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GIS Partnership Summary

Integrated Border Enforcement Teams (IBET)

Partnership Purpose and Goal:

GIS can play a key role in increasing the effectiveness of Integrated Border Enforcement Teams (IBET), one of 30 points in the Smart Border Action Plan signed by the US Attorney General and the Canadian Solicitor General in December 2001. The IBET GIS Work Group was formed to support IBET's mission of securing the US/Canadian border by facilitating partnerships such as the Land Use/Land Cover (LULC) Project described here. The LULC data and the partnerships developed through this project will support a joint Common Operational Picture (COP) that involves multiple law enforcement agencies.

Participants and Resource Contributions:

The Institute for the Application of Geospatial Technology (IAGT): Provided grant funding for LULC production, Landsat 7 data, and project review.

The National Law Enforcement & Corrections Technology Center - Northeast (NLECTC NE): Provided in-kind support for project management and technical coordination.

The Ontario Ministry of Natural Resources: Performed production of LULC inexpensively, and in a short time frame.

NYS GIS Clearinghouse, Land Information Ontario, and the Province of Quebec: provided GIS data and imagery to support LULC production.

NYS Dep't of State (NYS DOS), US Border Patrol, US Attorney's Office for the Northern District of NY, Franklin County District Attorney's Office, NY State Police (NYSP), NYS Office of Cyber Security (NYS OCS), Land Information Ontario, Royal Canadian Mounted Police, Ontario Provincial Police: All provided review and supported the project.

Data Sharing Cooperative Members: NYS DOS, NYSP, NYS CSCIC, Ontario membership is pending.

Time Frame

Date Partnership Began: March 2004

Completed: No

Deliverables:

This partnership will deliver a unique set of LULC data that spans the US/Canadian border. It has been developed from 2002 Landsat 7 imagery and in part from 2003 ortho-imagery produced by NY that also extends into Canada. Anticipated delivery date is 31 August, 2004.

It is expected that the data will be made available to members of the NYS GIS Data Sharing Cooperative.

Brief Summary of Partnership:

The IBET GIS Work Group's LULC Partnership has been very successful to date in meeting an aggressive schedule, and this success is credited to the partners' professionalism, skills, enthusiasm, and a desire to secure the homeland. Tasks accomplished include obtaining grant funding from the IAGT, defining requirements, assembling the required data sets, and beginning production. It is also important to note that the data being used to produce the LULC is local in nature. The Ontario data at 1:10,000, Quebec data at 1:20,000 and the New York State data, such as the Accident Location Information System (ALIS) street layer, provide far more accuracy and detail than the federal data available from either nation. The cooperation between two provinces and one state to accomplish this is significant.

This partnership was developed through the IBET GIS Work Group (WG), and it built on the results of previous WG partnership efforts. In the spring of 2003, the Work Group requested that NYS CSCIC produce digital ortho-imagery (DO) into Canada as part of NY's DO program to support IBET activities. The collection of necessary ground control for the ortho-imagery production was in turn facilitated by the WG. Among other things, this ortho-imagery is being used as ground truth for the LULC production. In a continuation of the bootstrapping process, the current LULC project will be used to demonstrate some of law enforcement's geospatial requirements in the border region, and this demonstration of need will then be used to enlist the support of national mapping agencies such as the USGS or Natural Resource Canada. A national, regional, provincial, state and local partnership will

most likely be necessary to extend data collection and production nationwide, to periodically update LULC and DO coverage, and to maintain historical data for change detection. With the National Map, the National Digital Ortho, and the National Land Cover Dataset programs as models, and frameworks, this should only be a matter of making room at the table for a Canadian partner or two. This will most definitely be an ongoing partnership.

Additional Information Available On-line: <http://www.iagt.org>, <http://www.justnet.org>,
<http://www.lio.mnr.gov.on.ca>

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GIS Partnership Summary

Interactive Mapping Gateway

Statewide Digital Orthophotography Application

Partnership Purpose and Goal

A partnership was developed in order to provide internet mapping access to the State's digital orthoimagery data set. The partnership was needed to produce an enhanced orthophotography data set suitable for use in disaster preparedness and delivery over the internet, to design and develop the necessary internet software application, and to provide a host web site.

Participants and Resource Contributions

Federal

- **USDA NRCS** - Syracuse field office provided access to the federal digital ortho quarter quad data set needed for reprocessing

State

- **Department of State** - coordinated reprocessing imagery and web application development, led interface design development, provided significant facilities and staff, contractual services with MapInfo Corporation, and the internet application software license.
- **MapInfo Corporation** - provided technical service for web application development.
- **Department of Health** - provided continuing coordination of development of the web application and manages use of the application.
- **State Education** - provided initial server hardware resources, HTML support, participated in web application interface design, and oversight of content consistency and appearance.
- **Office for Technology** - provided partial funding for reprocessing imagery, participated in web application interface design, and first line critique of all facets of the application.
- **Department of Environmental Conservation** - provided original digital ortho quarter quad data unavailable from the USDA NRCS collection.
- **University at Albany** - Department of Geography and Planning, provided professional staff for reprocessing the state digital ortho data set and developing HTML interfaces.
- **University at Albany** - Computer Science Department, provided expertise in developing automated imagery reprocessing methods.
- **Department of Transportation** - provided extensive second-tier quality control for the enhanced orthoimagery product.
- **GIS Coordination Program** - Digital Ortho Workgroup, Coordinating Body: both groups provided feedback on the internet application prior to its live debut.

Time Frame

Date Partnership Began: July, 1999

Completion Date: On-going

Deliverables

Deliverables include: (1) a revised statewide ortho data set featuring enhanced image quality and compressed file formats; (2) an advanced internet mapping capability centered around accessing digital ortho imagery with a substantial level of geographic guidance and, (3) a sound internet application that can be transferred to other public entities in order to significantly reduce start up costs associated with developing inter- or intranet mapping capability.

Brief Summary of Partnership

This partnership has been very successful in meeting the objectives of providing a large block of digital imagery in a user-friendly internet application. Users have noted a substantial improvement in the quality of the imagery, the ease of use of the web application and the responsiveness of the software/hardware combination.

At the heart of the partnership was a core of technically proficient remote-sensing and GIS staff who completed enhancement of the 430-Gigabyte statewide digital data set in a remarkably short period of time from July to December 1999. Success capitalized on a unique partnership between the University at Albany and the Department of State. This time period included acquisition of original data sources, development of image processing methodologies, radiometric correction of the imagery, reformatting and file compression, and production of stable archival data copies. Concurrently, the internet application was under development in anticipation of hosting the data set. Development of the application required translation of a creative vision into a working product that was accomplished among Department of State, State

Education, Office for Technology and MapInfo Corporation.

Functional aspects of getting an operational system fell largely with the State Education Department and Department of State. Subsequent responsibilities were met by Office for Technology for hardware and Department of Health and Department of State for transfer of the application to the Office for Technology.

The goal of the project was definitely met. In addition, the benefits of the effort exceeded expectations by several measures. For example, USDA NRCS has been able to use the internet application to meet many of its field mapping needs. This has avoided the need for establishing independent GIS platforms in field offices with savings in hardware, software, and most importantly, staff time. The ability to easily use the application for any GIS data presentation either at the same physical location or by transfer of the application to other sites has the potential to reap substantial unexpected savings. Finally, the construct of the site allows for access to the statewide digital ortho data set for direct data downloads and potential data warehouse linkages to other applications that are under consideration.

Finally, the application now in place was intended as a phase 1 product. A phase 2 product featuring many significant enhancements is scheduled for its debut by September 2000.

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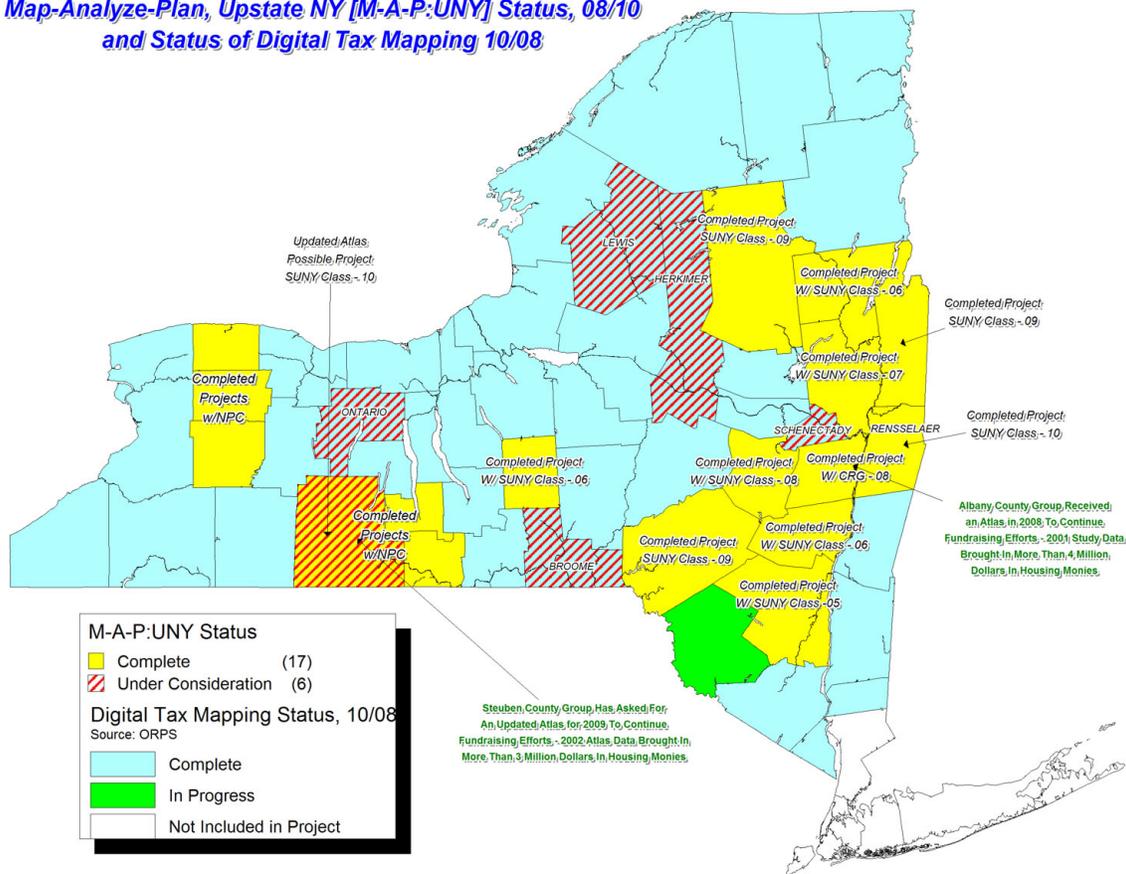
GIS Partnership Summary

Map, Analyze, Plan: Upstate New York [M-A-P:UNY]

Partnership Purpose and Goal:

The partnership's purpose is to make Real Property land use and housing condition information more universally available, and usable, to neighborhood preservation companies and rural preservation companies throughout upstate New York as well as to the county agencies responsible for planning and real property tax administration. County Land Use and Housing Condition Atlases will be created for a majority of upstate counties and will be available both to county officials and local preservation companies for strategic planning purposes. Enhanced electronic data will also be provided to the counties and/or regional agencies, if they so desire, at the end of each county project. MapInfo Corporation is making 10 free copies of its software available to selected upstate preservation companies, through the Neighborhood Preservation Coalition, to insure the enhanced data will be available, and used and enhanced by companies for their own planning purposes.

Map-Analyze-Plan, Upstate NY [M-A-P:UNY] Status, 08/10 and Status of Digital Tax Mapping 10/08



Prepared by: Bob Breglio, Director, GIS & Assessment, The Central Research Group, Inc.

Participants and Resource Contributions:

Chemung, Cortland, Genesee, Greene, Orleans, Saratoga, Schoharie, Schuyler, Steuben, Ulster, Warren and Wyoming Counties - Provided low/no cost digital tax maps and Real Property Data. Other counties are being put on the schedule for this year at this time. We ultimately hope that most upstate counties will have a Land Use and Housing Condition Atlas available.

City of Albany Department of Assessment & Taxation - The Commissioner made a presentation to the summer session classes, informing them about the wealth of data available in the Real Property System.

Cortland County Planning Department - They are supplying the data and detailing staff to clean up errors and omissions. Their Planning Director also came to Albany and addressed the class, discussing his hopes for the project.

Delaware County - The Delaware County Planning Department supplied the parcel shape files. In some towns, the Real Property System [RPS] data had to be determined by on site visits to the assessors offices. Other assessors helped with missing or ambiguous data.

Hamilton County - The County Director of Real Property Tax Services provided the GIS shapefiles and helped to clarify missing or ambiguous Real Property System [RPS] data. Copies of the study and atlas were provided to each town Supervisor and Village Mayor as well as to other relevant agencies within the county.

Local Preservation Companies - Provided some staff time to clean up missing data.

MapInfo Corporation is providing 10 free copies of their software and ten free training seats at their Troy, NY training facility, one for each company chosen to receive the free software.

Rensselaer County - The County I.T. Department supplied the parcel shape files and assessors were asked to help clean up ambiguities or omissions in the data.

Saratoga County - Data was supplied by the Real Property Tax Services Office. A staff member from that office helped the students to clean up missing/ambiguous data with the help of the local assessors. Original atlases and PDF copies were supplied to the county. This Real Property staff member and a planner from the county planning department also came to address the class when the work was begun.

Schoharie County - Schoharie County Real Property Tax Services supplied the base maps and worked with SUNY students to clarify overflow and unknown parcels. The County Planning Department presented the finished study and atlas to the County Board of Supervisors for formal acceptance in the fall of 2008.

Southern Tier Central Planning & Development - Will take the enhanced electronic data and make it available on their website.

Steuben County - Steuben Church people Against Poverty [SCAP] has asked the Coalition to update their 2002 atlas as the data has helped to leverage over 3 million dollars in housing monies since they began using the information in grant applications.

SUNY-Albany - The Department of Geography and Planning is very supportive of the concept and has begun to offer a graduate/undergraduate Planning Topics course discussing the integration of GIS and RPS data for planning in upstate New York. The course is being taught by the Coalition's GIS Specialist. We are also discussing the use of graduate interns when capital district counties are done. The projects from the 2006 and 2007 classes are available below.

Ulster County - Provided staff time to clean up missing parcel property class codes and housing condition data for its atlas. The enhanced files will be shared with Ulster County for their use and may ultimately be available on their GIS website. A Rural Preservation Company that works in Ulster County is now increasing their staff capacity and is asking the Coalition's GIS Specialist to assist them in updating the atlas that was done by the SUNY-Albany class in 2005.

Warren County Planning Department - Their GIS Coordinator allowed the class access to their intranet to download the parcel shape files. The GIS Coordinator also came to the class to discuss her hopes for the project.

Washington County - The County Board of Supervisors waived the fees associated with provision of the GIS shapefiles and County Real Property Tax Services provided the shapefiles with associated Real Property System [RPS] data. The students in Planning Topics, SUNY/Albany, 2009 or town assessors clarified ambiguous or missing data. A copy of the study was provided to the Chairman of the Board of Supervisors, the Director of Real Property Tax Services and the County Planning Department. PDF Copies of the material were provided to each town assessor.

Western Catskills Community Revitalization Council - The council's service area is comprised of towns in Delaware, Greene and Schoharie Counties. Data from previously completed atlases was integrated with new materials from Delaware County to create a land use and housing condition atlas for this group's service area. Staff from the company assisted in researching unknown parcel shapes for resolution and also worked with local assessors to clarify housing condition for some parcels.

Time Frame

Date Partnership Began: January 2004

Completed: No

Deliverables:

A County Land Use and Housing Condition Atlas will be provided to County Planning and Real Property Tax Service Agencies as well as all local preservation companies that have a service area that includes the county being analyzed. Adjacent county planning and real property tax service agencies will also be provided copies of completed atlases. Thus far most counties have been provided their own as well as adjoining county information. Enhanced GIS data will also be provided to 9 Counties at the completion of their project, when requested.

- **Cortland** - 2006 [study](#) - atlas 2006 [part 1](#) and [part 2](#) 
- **Delaware** - 2009 [study](#) - atlas 2009 [part 1](#) and [part 2](#) 
- **Greene** - 2006 [study](#) - atlas 2006 [part 1](#) and [part 2](#) 
- **Hamilton** - 2009 [study](#) - [atlas 2009](#) 
- **Rensselaer** - 2010 [study](#) - [atlas 2010](#) 
- **Saratoga** - 2007 [study](#) - [atlas 2007](#) 
- **Schoharie** - 2008 [study](#) - [atlas 2008](#) 
- **Warren** - 2006 [study](#) - [atlas 2006](#) 
- **Washington** - 2009 [study](#) - [atlas 2009](#) 
- **Western Catskills** - 2009 [study](#) - [atlas 2009](#) 

Brief Summary of Partnership:

The partnerships continue to work as expected. There are some unexpected delays in getting missing and unknown data from local assessors due to the cyclical nature of their duties, but it has not been problematic. The counties thus far have been very receptive to having a planning tool at their disposal that they could not create themselves with available staff resources. The local preservation companies are happy to have a planning tool that allows them to refine their strategic housing plans for their service area, using a data source that is already in place and collected uniformly throughout upstate New York.

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GIS Partnership Summary

New York City Area Consortium for Earthquake Loss Mitigation (NYCEM)

Partnership Purpose and Goal

The New York City Area Consortium for Earthquake Loss Mitigation (NYCEM) was established in 1998 to conduct loss estimation studies, which will provide a framework for developing appropriate, cost effective mitigation strategies to reduce the risk of losses which would result from a large or moderate earthquake. Loss estimates, which are generated using the GIS-based "HAZUS" software, will also provide disaster preparedness planners with a better understanding of the likely post-event conditions on which to base their plans.

Participants and Resource Contributions

Charter Members

- Federal Emergency Management Agency (FEMA)
- New York State Emergency Management Office (SEMO)
- New Jersey Office of Emergency Management (NJOEM)
- New York City Office of Emergency Management (NYCOEM)
- Multidisciplinary Center for Earthquake Engineering Research (MCEER)
- Lamont-Doherty Earth Observatory (LDEO)
- Princeton University

Additional Participants

- New York State Geological Survey (NYSGS)
- New Jersey Geological Survey (NJGS)
- Westchester County
- Rutgers University

Committee Members

- Executive Committee <http://www.nycem.org/exembrs.asp>
- Advisory Committee <http://www.nycem.org/advmbrrs.asp>

Stakeholders

NYCEM encourages involvement from public and private organizations potentially impacted by seismic events.

Partnership Strategy for Resource Contributions

NYCEM will be releasing its second year report in summer 2000. This corresponds with Federal Emergency Management Agency original two-year \$250,000 "seed" money time frame (the New York State Emergency Management Office and the New Jersey Office of Emergency Management Office have provided additional support through allocations of their annual National Earthquake Hazard Reduction Program funding). It is intended that post second year activities be supported through funding and in-kind services from stakeholders.

Time Frame

Date Partnership Began: 1998

Completion Date: On-going

Deliverables

Primary efforts are the development, collection, and integration of inventory databases on the built environment and soil seismic characteristics for input into the HAZUS model.

Brief Summary of Partnership

The United States Geological Survey's National Seismic Hazard Mapping Project indicates a moderate earthquake hazard in the New York City metropolitan region: <http://geohazards.cr.usgs.gov/eq/>. Generally speaking, however, earthquake "risk" is a product of a region's seismic hazard, multiplied by population density and the fragility of the built environment. Consequently, the Federal Emergency Management Agency

(FEMA) considers the New York City metropolitan area among the nation's greatest earthquake risks.

Although the region is considered to be a high risk, little is known to date concerning the nature and extent of losses which would result from a large or even a moderate size earthquake. The New York City Area Consortium for Earthquake Loss Mitigation (NYCEM) was established in 1998 to conduct loss estimation studies, which will provide a framework for developing appropriate, cost effective mitigation strategies to reduce this risk. In addition, loss estimates will enable disaster preparedness planners with a better understanding of the likely post event conditions on which to base their plans.

NYCEM is using the GIS-based "HAZUS" software to generate loss estimates.

Additional Information Available On-line

<http://www.nycem.org/default.asp>

<http://www.nibs.org/hazus.htm>.

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Information last updated: March 30, 1999

GIS Partnership Summary

New York City's GIS Coordination Program



2001 GIS Partnership Award Winner

Partnership Purpose and Goal

The New York City GIS Coordination Program has been spearheaded by the NYC Department of Information Technology and Telecommunications. The goal of DoITT's program was to develop an integrated approach to the development, distribution, and use of data in New York City Government. A major portion of this partnership includes the development of the GIS Utility project, which creates a central database (also referred to as a spatial data warehouse) for key spatial data layers that would be of use to all City agencies and the public. The GIS Utility integrates important GIS layers with business critical databases from different City agencies. This allows agencies to tie their business data to GIS base layers to perform powerful analyses efficiently, using the most current and relevant data available in the City. The effectiveness of the GIS Utility is directly related to the type and amount of data in the system. Given this, the success of the project success depended heavily on the cooperation and coordination of nearly every agency in New York City.

However, this partnership is more than just the creation of GIS. It is about the development of a collaborative environment, previously unknown in New York City as well as many, if not most, municipalities in the United States. DoITT's coordination efforts have gone beyond city borders to include the development of an I-Team for the entire metropolitan region. The I-Team, building on NYC's collaborative environment, is striving to develop a coordinated, regional approach to the creation and distribution of GIS data. The I-Team in the NYC region is just the beginning of a national approach to coordinating GIS data development.

Participants and Resource Contributions

- NYC DOITT (provided funding and act as lead agency)
- NYC Department of Environmental Protection (provided funding)
- NYC Department of Design and Construction (provided funding)
- Hunter College - CARS Lab
- NYC Department of Planning
- NYC Fire Department
- NYC Police Department
- NYC Mayors Office of Operations
- NYC Office of Management and Budget
- NYC Department of Finance
- NYC Housing Preservation and Development
- Landmark Preservation
- Boroughs Presidents' Offices
- Plan Graphics, Inc.

Time Frame

Date Partnership Began: The concept was developed in 1991. The official GIS Utility project began June 2000 when the contract was awarded.

Completion Date: Portions have been completed, but the entire GIS Utility project will be finished sometime 2002. However, Coordination between NYC agencies should continue indefinitely.

Deliverables

Internet Mapping Applications for NYC Emergency Management Office
NYC's Everyone Map - an Intranet based mapping application for all NYC Agencies
Spatial Data Warehouse to serve the numerous data layers
Digital Ortho Imagery
Various vector data products
Planimetric maps

Brief Summary of Partnership

New York City, like many government entities, has had a history of parochial approaches to GIS. In the 1990s, DoITT, in particular Al Leidner, former GIS Director, was made responsible for citywide GIS coordination. DoITT was also responsible for the creation of an integrated citywide base map and development of a coordinated approach to using GIS. Al Leidner's unobtrusive and inclusive approach to working with GIS leaders in city agencies has led to the establishment of working relationships heretofore unseen in city GIS. In achieving this, he, as DoITT's former GIS Director, has consistently and effectively coordinated GIS activities for NYC agencies including the development of digital orthoimagery and planimetric maps for the entire City and the eventual GIS Utility. In addition, the development of the GIS Utility has fostered an unprecedented working relationship between New York City Agencies, academia and the private sector. The partnership for this project was built over many years of persistence, follow-up and good communication. The project's current success is the best measure for the effectiveness of this partnership.

An additional benefit of this partnership has been DoITT's push for New York City's recent membership in the NYSGIS Data Sharing Cooperative and development of an I-Team for the metropolitan NYC region which has brought together 3 states, city government, federal agencies, academia and the private sector.

On September 11, 2001, the benefits of this partnership came to full fruition as multitudes of GIS professionals from city government, academia, and the private sector came forth to work around the clock under DoITT's direction to build a cohesive GIS operation from scratch and provide desperately needed GIS support to rescue and recovery efforts. Anyone who has seen the site, heard the stories of the use of GIS from the fire fighters and the rescue workers, and seen the GIS operation that was literally brought together overnight will truly know the benefits that partnership can bring to solving problems.

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GIS Partnership Summary

New York City's Urban Forest Program



2008 GIS Partnership Award Winner

Partnership Purpose and Goal

A strong GIS partnership has developed between the New York City Department of Parks & Recreation (NYC DPR), the U.S. Forest Service Northern Research Station (USFS NRS), and the University of Vermont through the New York City [Urban Field Station](#), a joint initiative of the US Forest Service and New York City Parks. A central purpose of this partnership is to apply geospatial technology to improve the understanding of New York City's urban forest through analysis, data sharing, education, and cooperation. The partnership was originally founded to analyze NYC's urban forest during the development of PlaNYC 2030. Since PlaNYC's inception the partnership has expanded to include everything from mapping stewardship groups to educating the next generation of geospatial professionals. The Urban Field Station promotes natural resource stewardship and ecological literacy in New York City and supports research on the ecology, dynamics and benefits of the urban forest.

Participants and Resource Contributions

The major partners involved in spatial analysis are:

- New York City Department of Parks and Recreation (NYC DPR)
- USDA Forest Service, Northern Research Station, Burlington, VT & New York, NY (USFS NRS)
- New York City Urban Field Station
- University of Vermont (UVM), member NYS GIS Data Sharing Cooperative

NYC DPR provides the day-to-day management of all data, conducts timely analysis, and supports data transfer. UVM provides expertise as it relates to high-end geoprocessing, automated feature extraction of remotely sensed data, spatial statistical analysis, and econometric modeling. The USDA Forest Service provides a means to access nationally recognized experts on urban ecology, urban forestry, ecological literacy, spatial modeling, and resource stewardship. Through the Urban Field Station we have recently worked together on geospatial analysis projects such as stewardship mapping, urban tree canopy analysis, and a young street tree mortality study. Numerous data sets, publications and reports have been or will be generated for these projects.

Over 30 other organizations participate in the GIS partnership. The organizations share data and collaborate on select projects. For example, spatial analysis techniques have been used to assist the New York Restoration Project (NYRP) in targeting locations for tree plantings on New York City Housing Authority properties. Using information provided by over 500 nonprofit groups on their "stewardship spheres," a subsequent analysis was performed to identify organizations that NYRP might be able to collaborate with in order to help maintain their trees.

At this time the partnership is in the process of creating inter-agency data standards for the MillionTrees NYC campaign to enable a common operational picture of tree planting initiatives.

Time Frame

Date Partnership Began: June 2006

Completion Date: On-going

Deliverables

- High-resolution land cover for New York City.
- An urban tree canopy assessment for over 9 million parcels in NYC showing the existing tree canopy and the amount of land available for tree canopy.
- Mapping out the locations of over 4000 environmental groups.
- Recording the stewardship spheres for more than 500 nonprofit groups across the city.
- Tree mortality

Various reports are available on USFS and NYCDPR websites. And, many data sets are made available through OASIS (one of the other 30 partners), NYC's online mapping system.

Brief Summary of Partnership

This partnership has proven to be successful because it leverages the local knowledge present in NYC DPR, the advanced geoprocessing and

automated feature extraction capabilities of UVM, and the expertise in resource management from the USDA Forest Service. The organizations in this partnership share data and adhere to the same set of standards.

Within a few months of establishment this partnership completed a complex analysis of NYC's urban forest that provided the scientific justification for NYC's 1 million tree initiative as part of PlaNYC. Building off of this success the partnership expanded, working with nonprofits to insure the success of the million trees initiative. Part of this expansion included the mapping of "stewardship spheres" for over 500 nonprofit groups within NYC, a dataset that is unlike any other in the nation.

Realizing the excellent educational opportunity this created, the partnership began training the next generation of geospatial professionals to insure the success of PlaNYC through 2030. The educational opportunities coming out of the partnership have ranged from grade school students performing GPS-based inventories of trees to a graduate-level course at the University of Vermont, "GIS analysis of New York City's urban ecology." For this graduate-level course a group of students is working throughout the semester with DPR staff and USFS scientists on developing prescriptive prioritization maps for targeting tree planting and other "green investments."

Each of the major partners has demonstrated their commitment to furthering spatial analysis. For the past two years we have worked closely to develop data and complete research projects. In the coming years we will be working together on grant funded, New York City Science Plan projects; many of which are based on or utilize a GIS analysis.

Recognizing New York City Department of Parks and Recreation (NYC DPR) as a nationwide leader in urban forestry, NRS signed an MOU with NYC DPR in 2006 to create the Urban Field Station and establish a long-term research partnership to deepen our understanding and strengthen urban natural resource stewardship. The GIS partnership is an essential and natural outgrowth of the field station and was made possible by the MOU.

Additional Information Available On-line

<http://www.nrs.fs.fed.us/nyc/>

<http://www.uvm.edu/~atroy/NYC/>

<http://www.nyc.gov/parks/trees>

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GIS Partnership Summary

New York Ocean and Great Lakes Atlas

Partnership Purpose and Goal

Environmental Conservation Law (ECL) Article 14 - the New York Ocean and Great Lakes Ecosystem Conservation Act (Act) created the New York Ocean and Great Lakes Ecosystem Conservation Council (Council) made up of nine state organization heads (Department of Environmental Conservation – Chair, Department of Agriculture and Markets, Department of Transportation, Empire State Development, NYS Energy and Research Development Authority, Office of General Services, Office of Parks, Recreation and Historic Preservation, State University of New York and Department of State – Executive Director). Section 14-0111, part 4 of the Act calls for creation of "...an ocean and coastal resources atlas to make information available to the public and decision makers".

Recognizing that this task was too big to be tackled by one entity, Department of State, Division of Coastal Resources (DCR), acting as staff to the Council, established a Technical Working Group (TWG) made up of GIS representatives from Council member agencies. In coordination with the TWG DCR staff has been working on developing this Atlas since January 2007, including data collection efforts, application development and infrastructure to deliver the application via the internet.

Participants and Resource Contributions

- **NOAA Coastal Services Center** – expertise, contract administration, data creation (statewide land cover)
- **NOAA Office of Coastal Resources Management** - Funding
- **NYS Department of Environmental Conservation*** – Council member, active partner, guidance, portal code
- **Department of Agriculture and Markets*** – Council member, active partner, guidance
- **Department of Transportation*** - Council member, active partner, guidance
- **Empire State Development*** – Council member, active partner, guidance
- **NYS Energy and Research Development Authority*** - Council member, active partner, guidance
- **Office of General Services*** – Council member, active partner, guidance
- **Office of Parks, Recreation and Historic Preservation*** – Council member, active partner, guidance
- **Office of Cyber Security and Critical Infrastructure Coordination*** –expertise, application code, guidance
- **State University of New York*** – Council member, active partner, guidance
- **Department of State*** - Council member, active partner, project coordination and management, hardware, software & contractual services acquisition
- **The Tug Hill Commission*** – data portal pilot
- **The South Shore Estuary Reserve Council** – Coordination, fieldwork for data collection, beta testing
- **The Nature Conservancy*** – data, guidance, pilot portal
- **Pitney Bowes-MapInfo** – software
- **ESRI** – software, expertise
- **Stone Environmental** – Data collection, data improvement/preparation, portal developers, report writing, project implementors
- **Troy Web** – application development
- **Light & Power Media** – web application hosting
- **PhotoScience** – Data creation (benthic habitat mapping)
- **Numerous data creators, custodians, providers** - data
- **Numerous Stakeholders** – beta testing and feedback

*NYS GIS Data Sharing Cooperative Member

Time Frame

Date Partnership Began: January 2007

Completion Date: On-going

Deliverables

A viable web mapping application that delivers information on ocean and coastal resources to the public and decision makers. Currently more than 200 data sets are available to the public and can be downloaded in formats suitable for MapInfo and ESRI products, or directly into GoogleEarth. Eventually over 1000 datasets will be available. Updated versions of the Atlas developed via continuing partnership will allow easier data searches, easier accessibility to information through open source formats such as WMS & WFS, and provision of analytical tools

through Web Application Services WAS.

Brief Summary of Partnership

Council staff serves as project coordinators and managers, the Technical Working Group is the primary guiding group, and partners are reached out to for support based on projects needs and goals. Each partner serves a critical and defined role based on expertise.

OGLAtlas is an ideal example of working partnerships. Success seen with this effort is due to clear definition of:

1. Roles. Partners are aware of expectations and responsibilities.
2. Goal. There is a common, tangible goal that the effort is working towards.
3. Single coordinating entity. While everyone has a voice in this effort, Council staff takes responsibility for coordinating the combined contributions by partner groups and therefore eliminating confusion in direction or process.
4. Willingness to participate. Each partner sees the value and is willing to participate in the process, leading to a smoother and more successful process.
5. Expertise. Partner's willingness to share their expertise and knowledge enables this effort to push technological boundaries in order to create a better product.

Benefits resulting from partner collaboration include: collection and organization of data, increase in data sharing and availability, and ability to do more simply by sharing resources and ideas. Also, through these partnerships additional collaboration may occur as a result of an increase understanding of the skills, knowledge and expertise within different organizations.

Additional Information Available On-line

<http://www.nyoglecc.org>

<http://www.nyoglatlas.org>

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GIS Partnership Summary

Open Accessible Space Information System (OASIS)

 2004 GIS Partnership Award Winner



Partnership Purpose and Goal:

The Open Accessible Space Information System (OASIS) collaborative was initiated in December 2000 under the leadership of the USDA Forest Services' Urban Resources Partnership (now overseen through the Forest Service's Urban & Community Forestry program). The vision and goal for OASIS was to harness the growing power of online mapping tools and geospatial technology so average citizens, neighborhood groups and others could both improve and better care for open spaces - such as community gardens, wetlands and parks - in and around New York City. OASIS has since grown to a regional scale.

Participants and Resource Contributions:

A partial list of participants/contributors includes:

Federal Government: USDA Forest Service* (funding, staff), US Environmental Protection Agency* (funding, data), US Army Corps of Engineers* (data), US Geological Survey* (data), USDA Natural Resources Conservation Service* (funding), National Park Service*.

NY State Government: NY Dept. of Environmental Conservation* (data).

NY City Government: NYC Dept. of Parks and Recreation (data), NYC Dept. of Finance (data), NYC Dept. of City Planning (data), NYC Dept. of Information Technology and Telecommunications* (data), NYC Dept. of Environmental Protection (data), Greenthumb (data).

Non-profit: NYPIRG's Community Mapping Assistance Project* (staff, hardware, data, website development and management), Council on the Environment of NYC (data, staff, outreach ideas), Open Road (data, staff, outreach ideas), New Yorkers for Parks (staff, data, outreach ideas), Municipal Art Society (data, staff, funding), Green Map (staff), NYC Environmental Justice Alliance (staff), Metropolitan Waterfront Alliance (data), Trees NY (staff), Regional Plan Association* (data), Sustainable South Bronx (data), NY Restoration Project, Historic House Trust (data), Neighborhood Open Space Coalition.

Academia: CIESIN – Columbia University * (data, technical support), SUNY College of Environmental Science and Forestry* (data – analyzed in conjunction with the Forest Service), CRSSA – Rutgers University (data), Cornell Cooperative Extension.

Private Sector: ESRI (software, technical support), Community Cartography (data), SpaceTrack (data), istudiodesign (technical support)

* indicates member of NYS GIS Data Sharing Cooperative.

Time Frame

Date Partnership Began: December 2000

Completed: OASIS is an on-going partnership and project.

Deliverables:

The OASIS participants have pooled their resources to create a free accessible interactive map for the NYC metro area (www.oasisnyc.net). No other single source provides access to the information provided by OASIS for New York City – almost four-dozen layers of spatial data about the city's "green infrastructure." Website users can do the following and more on OASIS:

- Search for open space by neighborhood;
- identify the elected officials who represent parks and community gardens;
- view high resolution aerial imagery to locate trees and other vegetation;
- identify detailed land use data (including potential open spaces such as vacant lots);
- view wetlands, wildlife areas, and historic landmarks; and

- compare Census demographics with open space and other land use patterns.

Brief Summary of Partnership :

The Open Accessible Space Information System (OASIS) in New York City is a coalition of more than 40 nonprofit organizations, government agencies, businesses, educational institutions, and individuals. Its centerpiece is the first citywide website (www.oasisnyc.net) that enhances environmental stewardship by providing a common, free, online, spatial data inventory. The OASIS website helps people see and understand their neighborhoods by visualizing data through mapping over the Internet. It makes information available to communities that cannot afford expensive mapping tools and/or access the complex pool of government and private sources of spatial data necessary to understand and plan for open space.

The OASIS partnership addresses several problems. For community organizations and local residents, it makes green infrastructure data accessible to groups that are without geographic information system (GIS) resources. In this way, it strengthens these groups' ability to participate in government decision-making, now that they are armed with information and analysis on the use of space in their neighborhood. For example, community gardeners use the OASIS website to locate vacant lots that are in close proximity to their gardens, and print these maps for meetings with local legislators.

For government, it helps reduce the costs and redundancy of open space mapping efforts across agencies. It helps these agencies identify incomplete or inaccurate spatial data, especially at the neighborhood/community scale.

For all parties, it helps reduce the need for independent greening and mapping efforts that had led to inefficient data creation due to replication of efforts and incomplete or inaccurate open space data and maps. It enables communities to nurture open space with modern technology and information by creating maps of open space on demand, and identifying key open-space resources and stewardship activity near a user-defined location.

The OASIS pilot project has exceeded its original goals. The website is accessed an average of 100,000 times per month by more than 10,000 unique monthly visitors. Users include community gardeners, community planners, parks advocates, government agency staff, reporters, Boy Scouts, and student researchers. Organizations have used OASIS as an educational tool, training hundreds of students in basic mapping and natural resource inventory techniques. Lesson guides based on this work now serve as a model for similar mapping efforts being proposed and developed throughout the country. In addition to website users, several dozen of the OASIS partners regularly commit resources, time, and ideas to ensure that the project grows and increases its value.

Additional Information Available On-line : www.oasisnyc.net

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GIS Partnership Summary

Regional Application Center for the Northeast (RACNE)

Partnership Purpose and Goal

The Regional Application Center for the Northeast (RACNE) was created to increase the potential for Earth system science data to become integrated into local decision making, thus increasing the potential for successful climate variability coping strategies and mitigation efforts throughout the Northeast. Using NASA satellite imagery, the RACNE will initially focus on hydrologic/hydraulic impacts of climate variability in the Finger Lakes Region. The top-level functional breakdown of the RACNE includes satellite ingest, data archive, GIS/image analysis, and delivery.

Participants and Resource Contributions

- **Legislature of Cayuga County** (local govt.) - principal sponsor.
- **Cayuga County Planning Department** (local govt. agency) - field staff and data. Bob Brower is the Regional Application Center Director.
- **Cayuga Community College** (state govt. agency and academia) - location of the RACNE - facility, field staff and GIS students.
- **State University of New York College of Environmental Science and Forestry** (SUNY ESF - state govt. agency and academia) - field staff (grad students).
- **Cornell Theory Center, Cornell University** (academia) - computer engineering support.
- **NYS Department of Environmental Conservation** (state govt. agency) - data.
- **New York State Technology Enterprise Corporation** (private not-for-profit company) - systems engineering analysis.
- **Air Force Research Laboratory/Information Directorate** (federal govt. agency) - image storage, retrieval, and exploitation technology.
- **NASA** (federal govt. agency) is providing direct project funding and technical support.
 - First year (98-99) - \$450,000
 - Second year (99-00) - \$3,000,000
 - Third year (00-01) - TBD

Time Frame

Date Partnership Began: June 1998

Completion Date: On-going

Milestones

6/98	6/99	9/99	5/00	6/00
Partnership Began	Ingest Operational	T3 Network Operational	GIS Lab Operational	

Deliverables

Establish a web-based two-way information transfer which integrates a wide range of remotely sensed data into local decision-making processes upon demand. Activities will include acquisition of high resolution ortho-rectified imagery and photographic data sets, and low and high resolution multi-spectral imagery data sets.

Brief Summary of Partnership

Although the RACNE is just getting under way, a Governing Board has been established and a Director named. Near-term tasks are acquiring hardware and hiring staff. Also, Cayuga Community College is establishing a two year GIS Associate Degree program and a 2+2 agreement linked to SUNY ESF.

Additional Information Available On-line

<http://co.cayuga.ny.us/nasa>

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Information last updated: November 8, 1999

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GIS Partnership Summary

Pedestrian Trail Documentation within the Villages of Carthage and West Carthage



2005 GIS Partnership Award Winner

Partnership Purpose and Goal:

The River Area Council of Governments has appointed an ad hoc committee to address issues pertaining to recreation. The committee is comprised of twelve members representing the component communities, the Carthage Central High School, the Branaugh Memorial Youth Club, and the Carthage Area Hospital.

The committee has embarked on a project to document existing pedestrian trails within the Villages of Carthage and West Carthage. With the assistance of Carthage Central High School students enrolled in the Introduction to Geographic Information Systems (GIS) course, the committee will develop recreational maps to promote a more walkable community and to provide opportunities for recreational activities that will enhance the quality of life of all residents.

Participants and Resource Contributions:

RACOG [River Area Council of Governments; Townships of Champion and Wilna, Villages of Carthage and West Carthage in Jefferson County, NY]. Provided opportunity for real GIS applications in concert with the local high school through a demonstrated need for trail documentation.

Carthage Central School District [Cooperative Member]. Provided field staff, data acquisition and preliminary processing of datasets of trails with specified attributes. Provided GARMIN GPS units, ARCVIEW 3.2a software and hardware for preliminary map production.

NYS Tug Hill Commission [Cooperative Member]. Provided technical base and assistance, final map production, and structured guidance throughout the project scope.

Date Partnership Began: 09/2003

Completed: on-going

Deliverables:

Trail locations with associated attributes as per RACOG request in electronic form to NYS THC and in paper maps to RACOG. Availability of these datasets and/or map products will be subject to RACOG and NYS THC determinations.

Brief Summary of Partnership:

The partnership has provided real life experiences for budding GISers in allowing them to create authentic datasets as directed by the RACOG. This continues to be a real positive asset to the instruction in the high school GIS course. The RACOG Recreation Committee determines the area of trail documentation as well as deciding upon a set of trail attributes for the documentation. Students then take to the trails, armed with Garmin GPS units and clipboards to record the trail locations and various attributes. In-school processing of the datasets results in the formation of trail data that has been sent electronically to NYS THC for final processing and fitting to finished maps for distribution to the RACOG Recreation Committee members. Discussions and decisions concerning trail placement, costs and other factors are then facilitated by the use of these partnership maps.

Additional Information Available On-line: <http://www.racog.org>

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GIS Partnership Summary

Shared Adirondack Park Geographic Information CD-ROM Version 1.0

Partnership Purpose and Goal

The "Shared Adirondack Park Geographic Information CD-ROM version 1.0" assembles Adirondack Park geographic information from a broad set of disciplines and makes it easily available for improved park planning.

From school children to graduate researcher, from town planner to county and state planners - it is the hope of the participants that the Adirondack Park will benefit greatly from the improved accessibility of this information.

Participants and Resource Contributions

Each of the following participants contributed data layers:

- **Adirondack Lakes Survey Corporation**
- **NYS Department of Education**
- **NYS Department of Environmental Conservation**
- **NYS Department of Health**
- **NYS Department of Transportation**
- **NYS Office of Real Property Services**
- **NYS Adirondack Park Agency**
- **Northern Forest Lands Inventory**
- **Natural Resources Conservation Service**
- **USGS**

The NYS Adirondack Park Agency assembled data layers, created an HTML interface for the CD set and is reproducing the distributing the CD.

Time Frame

Date Partnership Began: May 2001

Completion Date: On-going

Deliverables

This two-disk set assembles over 50 geographic data layers from 11 State and federal agencies from a broad set of disciplines. Map data layers are grouped on the CD by thematic content ready for use in the user's own GIS software, or in the free GIS data viewer provided on the CD. All data sets are in the Universal Transverse Mercator projection and the North American Datum of 1983. The majority of data layers are mapped at 1:24,000 scale or larger (suitable for regional planning), cover the whole Park, and are the most current available.

Brief Summary of Partnership

All of the project participants were very willing to share their data. We hope that this is only the beginning of a partnership devoted to spatial information sciences in the Adirondack Park. For an even more comprehensive collection we would like the participation of Local Government and not-for-profit data developers on future versions.

Even though we provide free GIS viewer software, the software is not intuitive. Therefore the potential benefits from this information are still not immediately achievable for the novice. Workshops with users and/or Internet help are being considered.

In the first month of distribution with limited advertising, we sent out 107 CD's to State and Federal Agencies, Local Municipalities, Academic affiliates, not-for-profits, small businesses, and individuals.

Additional Information Available On-line

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Information last updated: September 5, 2001

GIS Partnership Summary

Southern Tier West Regional Planning and Development Board's Community GIS Project

Partnership Purpose and Goal

Community GIS provides GIS capacity to local governments utilizing the internet. These are small rural communities that cannot implement GIS on their own because of cost, personnel, and time issues. Community GIS overcomes those barriers by providing GIS capacity through a cooperative effort.

Participants and Resource Contributions

- Southern Tier West RP & DB is the driving force behind the program. As a member of the NYS GIS Data Sharing Cooperative, STW has the GIS capacity and staff to build and operate the system. Through a grant from the Appalachian Regional Commission and funding provided by the member communities, the system was built and is operated.

Time Frame

Date Partnership Began: January 2001

Completion Date: On-going

Deliverables

Each member community has a specific web site viewer built to their specifications. The viewer is their portal to GIS capability. The program is open to any community in the Allegany, Cattaraugus, and Chautauqua County region.

Brief Summary of Partnership

Through this partnership twelve local governments in the three county region have begun to utilize GIS. This has spurred additional investment in many of these communities. This is an on-going program that accomplishes its goal each time a new member is added.

Additional Information Available On-line

www.southerntierwest.org

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Information last updated: September 3, 2002

GIS Partnership Summary

St. Lawrence County Resource Sharing GIS

Partnership Purpose and Goal

This informal partnership was born out of the need for GIS development in St. Lawrence County, NY. By combining the knowledge and resources of governmental and academic institutions this large but rural county with limited GIS staff resources can make greater, more efficient progress in developing and disseminating spatial data.

Participants and Resource Contributions

- **St. Lawrence County** - Includes GIS staff from the Planning Department, Real Property Tax Services Department and Highway Department. The county is a member of the NYS GIS Data Sharing Cooperative. Resources: GIS and CAD software, computers, digitizers, printers, plotters. Data: Real Property parcels, special-purpose GIS projects.
- **St. Lawrence University** - Includes GIS staff from the Launders Science Library GIS Unit. The University is not a member of the NYS GIS Data Sharing Cooperative. Resources: A variety of GIS software tools for student use, computers, printers, plotters, GPS equipment, training facilities. Data: A fairly comprehensive collection of publicly- available datasets.
- **New York Power Authority** - Includes GIS staff from Grand Gorge, White Plains and Massena, NY offices. NYPA is a member of the NYS GIS Data Sharing Cooperative. Resources: A comprehensive set of CAD, surveying, GPS and GIS tools and equipment. Data: Coverages and imagery associated with the St. Lawrence Power Project.
- **New York State Department of Environmental Conservation** - Includes GIS staff from the Potsdam and Albany offices. NYSDEC is a member of the NYS GIS Data Sharing Cooperative. Resources: Unknown. Data: Datasets produced by the NYSDEC, special-purpose maps.
- **St. Lawrence County Soil and Water Conservation District** - Includes GIS staff from the district office. The district is not a member of the NYS GIS Data Sharing Cooperative. Resources: Computer, printer. Data: USDA SSURGO Soils.

Time Frame

Date Partnership Began: April 1999

Completion Date: On-going

Deliverables

No specific deliverables are identified at this time. The county responds to requests for data on a case-by-case basis.

Brief Summary of Partnership

Although April, 1999 was shown as the beginning of the partnership, this is an arbitrary date. The beginnings of the real partnership began early in the 1990's when the New York Power Authority notified St. Lawrence County that they needed digital real property data for their St. Lawrence - FDR Power Project GIS database to support their application for a new hydroelectric license from the Federal Energy Regulatory Commission. NYPA's fee for the data enabled St. Lawrence County to get into GIS for the first time. Later, after the County digitized its real property tax maps, its staff began providing GIS services to a variety of clients. To complete some of these requests, the County relied on data and technical assistance from some of the partners listed above. The County has provided project-specific GIS opportunities for both paid and non-paid internships to students from local area colleges and universities. The Soil and Water Conservation District's participation was a key factor in securing digital SSURGO soils information for the County. In summary, when one of the partners faces a particular GIS problem, the resources of the partnership have been made available to solve it.

Additional Information Available On-line

N/A

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Information last updated: September 3, 2002

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GIS Partnership Summary

State-of-the-Art Public Access Training and Production GIS Laboratory



2000 GIS Partnership Award Winner

Partnership Purpose and Goal

The partnership was created to develop and maintain a state of the art public access training and production GIS laboratory and database. The partnership was necessary in order to develop a cost effective GIS laboratory where collaboration was the key factor in spreading development costs between partners.

Participants and Resource Contributions

- **US Environmental Protection Agency** - Funding
- **Corporation for National Service** - Funding
- **NYS Archives and Records Administration** - Funding
- **NYS Department of Environmental Conservation** - Funding
- **Ulster County** - Funding
- **Town of Rosendale** - Funding
- **Lower Esopus River Watch INC. 501-c-3** - Funding
- **Ulster County Community College** - In-kind space, internet access
- **Ramapo College of New Jersey** - Funding 120,000.00, material resources and in-kind services
- **Clark University** - Software donations and technical support
- **Kingston City Schools** - Funding, staff, facilities
- **Rondout Valley Schools** - Funding, staff, facilities
- **Ellenville Schools** - Staff, facilities
- **General Electric Corporation** - Funding
- **WalMart Corporation** - Funding
- **Environmental Systems Research Institute** - Software donations
- **ERDAS** - Software Donations

Time Frame

Date Partnership Began: 1997

Completion Date: On-going

Deliverables

Fully equipped, public access, production/training GIS laboratory and regional environmental database. Inter-generational public education/GIS/GPS/Remote Sensing/Land use/Watershed Management training program for students, teachers, local officials and volunteers. A replicable Service Learning program which is applicable state wide.

Brief Summary of Partnership

The partnership is formed around meeting the needs of local governments, schools and communities to develop sound land use planning capability and decision making at the local level. The partnership has met and exceeded all expectations, the partners have far exceeded all expectations and the goal is being accomplished in planned, measurable steps. The primary obstacle has been developing trust relationships with local governments. This however, is gradually changing and more and more local governments are utilizing the partnerships resources.

Additional Information Available On-line

None

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Information last updated: September 2000

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GIS Partnership Summary

Suffolk County Orthoimagery

Partnership is Open to New Partners

Partnership Purpose and Goal:

Purpose was to find money to pay for the additional costs of the higher resolution upgrade for the 2007 NYS Digital Orthoimagery for all of Suffolk County. The goal was to secure a total of \$454,000 from multiple government agencies within Suffolk County that requested the need for higher resolution imagery. Suffolk County was not prepared to foot this bill alone and a partnership solution was sought.

Participants and Resource Contributions:

All of the following agencies contributed funding to this project:

- Suffolk County
- Town of Brookhaven
- Town of East Hampton - NYS GIS Data Sharing Cooperative member
- Town of Huntington
- Town of Smithtown
- Town of Southold
- Town of Southampton - NYS GIS Data Sharing Cooperative member
- Town of Islip - NYS GIS Data Sharing Cooperative member
- The Long Island Rail Road
- The Suffolk County Water Authority

Date Partnership Began: June, 2006

Contracts are scheduled to be finalized in fall 2007, however letters of commitment have been secured from all agencies participating in this partnership.

Deliverables:

Deliverable will be six-inch pixel Natural Color and CIR 1 foot Natural Color Digital Ortho images for all of Suffolk County. To be delivered to the Suffolk County GIS Coordinator for distribution to all agencies.

Brief Summary of Partnership:

The partnership was successful due to the Suffolk County GIS Technical Committee that meets monthly in Hauppauge. This committee is run and facilitated by the Suffolk County GIS Coordinator and is open to all government agencies working or involved in Suffolk County that have interests in GIS. One of our main goals is to work together to obtain regional data at no or low cost. Each agency GIS representative was given the task to find their share of the cost from within their agency. After each representative was able to secure a letter of commitment from their agency, the real work began with coordinating budgets. The monthly meetings were the key to the communication needed amongst so many agencies to coordinate budgeting. The biggest challenge with this partnership was accommodating 10 different agency budget cycles (and their unique budgetary policies). Coming up with this funding every three years still looks to be a large challenge and we are presently discussing ideas on how we can look to local legislation to form a "County Consortium" to address the nightmare of pulling together large sums of money from multiple government agencies on a three year cycle for this much needed dataset. Many thanks is owed to Tim Ruhren, Digital Orthoimagery Program Manager from NYS CSCIC who worked closely with us to successfully meet this challenge.

An additional side benefit of the success of this partnership was realized by our neighboring counties. Because of our large size, Suffolk County's commitment to upgrade our resolution brought down the costs to the other three counties in Zone 7 to upgrade their resolution as well. Suffolk County is the largest county in the zone as we represent more than half (52%) of Zone 7 fly area.

Additional Information Available On-line: None

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GIS Partnership Summary

Tidal Wetland Restoration South Shore Estuary Reserve Long Island, New York

Partnership Purpose and Goal

On behalf of the South Shore Estuary Reserve Council, New York's Department of State (DOS), Division of Coastal Resources, is working in partnership with the U.S. Fish and Wildlife Service (F&WS), Coastal Ecosystems Program, and the U.S. Army Corps of Engineers (ACE) to develop a comprehensive wetland restoration plan for Long Island's south shore estuary. The estuary is a large coastal embayment complex encompassing over 25,000 acres of estuarine and pallustrine wetlands. Historical impacts to the estuary's tidal wetlands have been substantial, with most surviving wetlands having been ditched under mosquito control programs, with a tremendous loss in living resource values. The objective of conducting the comprehensive restoration plan is twofold: 1) identify a long term restoration goal for tidal wetlands and wetland-dependent fish and wildlife resources, by quantifying the total amount of potential wetland restoration acreage; and 2) identify and characterize specific site restoration requirements. Both objectives are being achieved using GIS spatial analysis, based on newly developed digital data sets. Analysis has provided a qualitative and quantitative assessment of wetland restoration needs over large areas, helping to identify prior conditions and establish more meaningful priorities.

Participants and Resource Contributions

- **US F&WS**
 - Software
 - Personnel: time and expertise
 - Data: both digital and Database format

- **US ACE**
 - Personnel and In-Kind Services
 - \$100,000 Reconnaissance Study & anticipated funding for Feasibility Study

- **NYS DOS**
 - Hardware
 - Software
 - Personnel: time and expertise
 - Data: Creation and acquisition of new digital data sets

Time Frame

Date Partnership Began: November 1996

Completion Date: On-going

Deliverables

List of priority Wetland Restoration projects in the South Shore Estuary of Long Island, including recommendations regarding acreage and type of restoration work to be carried out at each site. Digital data sets are planned to be available through the Clearinghouse.

Brief Summary of Partnership

To identify wetlands appropriate for restoration/enhancement it is necessary to locate historic and current wetland occurrence and extent, as well as current ownership. In order to determine where wetlands were historically, a number of geographic data sources are being used. DOS digitized National Oceanographic Survey maps from the 1880's - 1920's. These "vintage" coverages used in conjunction with raster 1930's topographic maps (T - sheets); and 1940's aerial photography, yielded an accurate picture of prior wetland conditions and dynamics in the Estuary. State tidal wetland regulatory maps from 1974 digitized by DOS identified dredged spoil areas and wetlands formerly connected to tidal influence. National Wetland Inventory (NWI) maps from 1978 & 1995 were obtained from F&WS in digital format. These sources, when compared with current conditions, represented by recent (1994) orthophoto series, facilitate assessment of wetland loss, degradation and even gains. Suffolk County digital parcel maps and town tax assessor's data were used by DOS to determine publicly owned lands and lands owned by private conservation organizations (i.e. The Nature Conservancy, etc.) corresponding to the identified areas of loss and/or

degradation. In concert with DOS mapping efforts, USFWS created GIS coverages and an Access database of species and habitat use information and compiled an inventory of current restoration efforts in the south shore region for incorporation into a wetland restoration decision-making tool.

The current phase of the partnership consists of a systematic effort to search out candidate areas for wetland restoration or enhancement and is being undertaken in a series of meetings with F&WS and ACE. The resulting analysis will produce a total estimate of appropriate wetland restoration acreage in the South Shore Estuary.

U.S. Army Corps of Engineers will be utilizing the comprehensive wetland restoration plan to define and prioritize its wetland restoration activities in this region. The USFWS, with its other partners in the Long Island Wetland Restoration Initiative, will use the restoration protocol developed to guide its Long Island regional restoration efforts. New York State agencies, including DOS, will be using the program to assist in evaluation of municipal grant applications for funding wetland restoration activities.

Additional Information Available On-line

None

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GIS Partnership Summary

Tug Hill Commission GIS Cooperative

Partnership Purpose and Goal

The purpose of the Tug Hill Commission GIS Cooperative is to share the NYS Tug Hill Commission's relative wealth of GIS resources (hardware, software, data and staff) with government and not-for-profit agencies in the North Country region that lack the budget and/or personnel to implement GIS themselves. Because this a large and very rural portion of the state, agencies without GIS resources are common. The Tug Hill Commission GIS Cooperative serves to empower these agencies and the region they serve with GIS capacity.

Participants and Resource Contributions

Members of the Tug Hill Commission GIS Cooperative

- **Adirondack North Country Association** - funding
- **Jefferson County Cooperative Extension** - (non-digital) data
- **Jefferson County Job Development Corporation** - (non-digital) data
- **Jefferson County Planning Department** - staff, (digital) data
- **Jefferson County Soil & Water Conservation District**
- **Lewis County Chamber of Commerce***
- **Lewis County Planning Department*** - (non-digital and digital) data
- **Lewis County Soil & Water Conservation District***
- **Seaway Trail, Inc.***
- **Snowbelt Housing, Inc.** - (non-digital) data
- **Thousand Islands Land Trust*** - (non-digital) data
- **Tug Hill Resources Investment for Tomorrow (THRIFT)**
- **Tug Hill Ski and Snowmobile Club**
- **Tug Hill Tomorrow Land Trust** - (non-digital and digital) data
- **Western Edge Recreation Association**

*

NYSGIS Data Sharing Cooperative member

Time Frame

Date Partnership Began: Late Winter 2000

Completion Date: On-going

Deliverables

Deliverables mainly consist of data analysis and hardcopy maps produced for specific projects undertaken by Cooperative members. Less tangible products include the knowledge of GIS gained by Cooperative members as a result of the partnership. Some members, including the Jefferson County Planning Department, Thousand Islands Land Trust and Tug Hill Tomorrow Land Trust, have produced digital data that may eventually be distributed through the NYSGIS Data Sharing Cooperative.

Brief Summary of Partnership

The partnership has worked quite well, especially where it has provided resources to members who use the Cooperative to become familiar with operating a GIS (as has been the case with the Jefferson County Planning Department). The biggest challenge has been managing system user schedules and juggling workloads. Organizations who have received GIS products (analysis/maps) have been very pleased.

Additional Information Available On-line

None

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GIS Partnership Summary:

Tug Hill Commission GIS Starter Kit Program



2003 GIS Partnership Award Winner

Partnership Purpose and Goal

The Tug Hill Commission GIS Starter Kit Program was developed for the purpose of sharing the Commission's relative wealth of GIS resources (hardware, software, data and staff) with local governments in the North Country region that lack the budget and/or personnel to implement GIS themselves. Because this a large and very rural portion of the state, local governments without GIS resources are common. The Tug Hill Commission GIS Starter Kit Program is intended to empower these governments and the communities they serve with GIS capacity.

Participants and Resource Contributions

- **All government agencies** that provide data relevant to local governments in the Tug Hill Region (NYSDOT, NYSDEC, ORPS, County Real Property Agencies, etc.)
- **NYS Office for Technology** - fostered "intermediary GIS data custodian" concept which makes the partnership possible
- **Tug Hill Region local governments** - participating as of 9/02 - Towns of Camden*, Florence* Hastings* Lowville*, Martinsburg* Montague* Parish* Steuben* Trenton*

* NYSGIS Data Sharing Cooperative member

Time Frame

Date Partnership Began: Spring 2001

Completion Date: On-going

Deliverables

Participating local governments have designated the Commission as their "intermediary custodian" of GIS data. This allows the Commission to redistribute to them data it receives from other members of the Data Sharing Cooperative. Commission staffers perform the necessary decompression, importation and reprojection of the data. The Commission has produced GIS Starter Kits for many of these communities. These kits consists of all GIS data available for a community bundled with free viewer software on a compact disc. The Starter Kit program implements goal #9 of the NYS Quality Communities Task Force Report, which states:

Enhance the work of the State's Office for Technology to establish a statewide Geographic Information System (GIS) as a sound and efficient research and planning tool for municipalities, planners, businesses and other interested parties. All local governments should be encouraged to participate in the GIS Data Sharing Cooperative to increase the amount and quality of available data layers.

Less tangible products include the knowledge of GIS gained by participants. The is the first exposure to GIS for many.

Brief Summary of Partnership

Participants have been very pleased, especially to receive so much value free of charge.

Participants have become a valuable source of information on data quality, identifying datasets that need updating and or corrections.

Additional Information Available On-line

None

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GIS Partnership Summary

USGS and New York City DOITT

Partnership Purpose and Goal:

USGS approached New York City DOITT, Citywide GIS regarding anticipated Home land Security requirements for the August 2004 Republican National Convention (RNC) to be held in Madison Square Garden. This opportunity also would allow USGS to advance it's *National Map* initiative while NYC-DOITT was able to use USGS funding along with additional City funding to expand orthoimagery acquisition for all 5 Boroughs. Other ongoing City GIS activities were enhanced for GIS data creation in the central Manhattan area. Additionally some of the funding was used to create a detailed underground rail station viewing application for the RNC area. This was created using the CAD files of the stations. In preparation for emergency management for the RNC USGS was able to distribute the NYC-DOITT data and application to various Federal agencies.

Participants and Resource Contributions:

USGS contributed a \$100,000 grant to NYC-DOITT. DoITT was able to use a Citywide GIS contract to obtain current orthoimagery for the RNC area and obtain addition City funding for orthoimagery of the entire City. Orthoimagery was taken at six (6) inch resolution for use by Government entities while USGS will make this data available to the public at a two (2) foot resolution through *The National Map*.

Time Frame

Date Partnership Began: October 2003

Completed: Sept. 2004

Deliverables:

The USGS grant to DoITT called for better than 1-foot pixel resolution orthoimagery (restricted use), 2' pixel resolution orthoimagery to be displayed on *The National Map*, (actual highest resolution delivered was six (6) inches). The grant also called for subway and rail vector data with attribution for Manhattan, and building outlines with address ranges, be displayed on *The National Map*.

Brief Summary of Partnership:

USGS provided funding to NYC-DOITT to acquire orthoimagery, rail and subway data, and building outlines with address ranges. NYC-DOITT leveraged ongoing activities to enhance rail and subway data collection, and building outlines with address ranges. The orthoimagery was collected in late April 2004 to take advantage of the high sun-angle over mid-town Manhattan. Unlike the 2001 City orthoimagery which was film-based, digital imagery was used this time which produces better imagery resolution and speeds the delivery process. USGS then distributed data to NGA, North American Defense Command, U.S. Secret Service, U.S. Marshall's Service, and the Department of Home land Security. USGS will take delivery of a two (2) foot resolution orthoimagery dataset for display in *The National Map* that will be available to the public. This data was also provided by NYC-DOITT to local and State government entities as well as Federal Agencies for planning. Reviews of this data were extremely positive from agencies that used it.

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GIS Partnership Summary

Using LiDAR and GIS to Study Flood Plains and Erosion, and to Predict Failure Potential along the Banks of the Mohawk River

Partnership Purpose and Goal

This project was an exemplary success of partnership between a NYS department (DEC) and an academic institution (Union College). This project was only possible with this partnership because DEC provided LiDAR files of the Mohawk River watershed that Union College had no access to. The realized savings from this partnership is immeasurable as Union College does not have the resources that can be used to acquire the data that DEC freely provided. We at Union College are certainly thankful and appreciative.

The goal of this project was, and still is, to use the provided LiDAR tiles in conjunction with GIS analysis to identify areas of severe scour and erosion along the banks of the Mohawk River and in its flood plains. The failure potential of the identified locations will be examined and quantified in an attempt to alleviate the hazard of sudden sliding or failure to ensure public safety and the welfare of infrastructure facilities across the river and those in its flood plains too.

Participants and Resource Contributions

There are two major partners in this project:

1. New York State Department of Environmental Conservation, Division of Water.
2. Union College, Schenectady, NY, Department of Engineering, Geology Department, and the Environmental Studies Program.

Time Frame

Date Partnership Began: April 2009

Completed: On-going

Deliverables

This project aims at producing slope maps of the Mohawk River banks. These maps will be used in identifying the spots with the greatest failure potential and in quantifying this potential using a sliding/failure index. This index will be closely attached to soil properties, precipitation, slope displacement or deformation, and with any historical data that can aid in elevating the degree of accuracy associated with the prediction of failure potential.

Brief Summary of Partnership

This partnership is working very well. When the NYS DEC contact person was first approached to provide the data, he was very helpful, responsive, and willing to answer all questions related to the project. What adds to the success of this project is that when the students of the Geology Department and the Environmental Studies Program at Union College learned that data exists and has become available, several students got really excited and wanted to do projects using the data. A number of these projects are currently underway and those involved are some of the best students, which promises great outcomes.

Additional Information Available Online

The entire Mohawk River study, and the information related to the LiDAR project (presently underway) are available online on a secure website that can only be accessed by registered users. It is anticipated that this information will be made available to interested parties upon the completion of the study.

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GIS Partnership Summary

Cortland County's Economic Development GIS

Partnership Purpose and Goal

The partnership between the Cortland County Planning Department and the Business Development Corp./Industrial Development Agency (BDC/IDA) in the City of Cortland utilizes GIS to assist in enticing new business and industry into the county. The GIS data and maps generated by the County Planning Department are used by the BDC/IDA to create a positive economic climate within the county for new and existing businesses and residents.

Participants and Resource Contributions

- **Cortland County Planning Department** - GIS hardware, software, data, and expertise
- **BDC/IDA** - funding, non-digital data

Time Frame

Date Partnership Began: February 2001

Completion Date: On-going

Deliverables

Deliverables include hard copy maps which graphically portray answers to spatially-generated questions concerning business development. (i.e., Which parcels with 25-100 acres have railroad access?) Other deliverables include maps required for reports and applications for various economic development grants and programs including the NYS Empire Development Zone program and Farmland Protection.

Brief Summary of Partnership

The partnership has been successful. The BDC/IDA has been provided with a useful, expedient tool to aid in its endeavors to make Cortland County attractive to new business. And the County Planning Department's GIS has been given a financial brace of sorts in these times of dwindling economic resources.

Additional Information Available On-line

N/A

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GIS Partnership Summary

Crime Mapping and Analysis: Operation IMPACT

Partnership Purpose and Goal:

Crime analysis for tactical and strategic policing is critical to the success of New York State's Operation IMPACT — the statewide comprehensive crime reduction program (see below). For participating police departments, a key component of the program is the continuum of development and support for crime mapping and analysis provided through a partnership between DCJS and the University at Albany's School of Criminal Justice. Through this partnership, crime analysts in participating jurisdictions acquire hands-on computer training to enhance their GIS skills and analytic abilities to use location-based information about crime and its environment both to develop more effective and innovative problem-solving strategies as well as to guide task forces through the strategic crime control process.

Participants and Resource Contributions:

School of Criminal Justice, University at Albany – provided the classroom, the instructor, the software, written materials and the data for conducting the crime mapping workshop.

New York State Division of Criminal Justice Services (DCJS), Bureau of Justice Research and Innovation (BJRI) – recruited class participants from Operation IMPACT sites around the state by conducting a survey of GIS capabilities, and sponsored the workshop.

Date Partnership Began: June 2005

Completed: ongoing through continuing technical support and future training

Deliverables:

The partnership generates three specific deliverables. The first of these is the classroom instruction that includes hands-on experience at a state-of-the-art computer lab located at the main UAlbany campus. The second is the ongoing technical assistance provided by UAlbany and DCJS crime analysts. Third, through the partnership a core network of crime analysts in local police department has been identified which is anticipated to develop into a formal professional association, with its own website, computer forum and technical assistance hot-line. These deliverables comprise the immediate output of the partnership. In the long run, however, the partnership will assist local jurisdiction in utilizing their law enforcement resources more effectively and efficiently, thus having greater impact on public safety.

Brief Summary of Partnership:

In June, the School of Criminal Justice at the University at Albany and the New York State Division of Criminal Justice Services (DCJS) launched the first crime mapping and analysis workshop for Operation IMPACT law enforcement officials.

The workshop was held at UAlbany's Center for Excellence in Teaching and Learning from June 6 through June 9, 2005 and provided support and hands-on training in spatial analysis of crime data for more than 30 sworn and civilian crime analysts from police departments around New York State. Taught by Professor Piyusha Singh, a nationally recognized expert in the use of GIS in policing and criminal justice research, the workshop used ESRI's ArcView software.

Operation IMPACT, announced by Governor Pataki in his 2004 State of the State Address, is designed to assist the areas of New York State with disproportionately high crime rates, targeting the counties that account for more than 80% of the crime outside of New York City. It is a focused, comprehensive crime-fighting strategy based on a rigorous mapping and analysis of local crime data. IMPACT is built on a platform of successful crime reduction strategies developed through data-driven problem assessment, strategic planning, and accountability. The crime mapping workshop has furthered the partnership between the School of Criminal Justice and the Division of Criminal Justice Services by reaching out to crime analysts from around the state and enabling them to contribute more effectively to their home law enforcement agencies.

Additional Information Available On-line: <http://www.albany.edu/scj/CMworkshop.htm>

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GIS Partnership Summary

Interactive Parcel and Tourism Viewers

Partnership Purpose and Goal

This is an ongoing partnership between Cattaraugus County and Southern Tier West Regional Planning and Development Board. The partnership was formed to create two interactive ArcIMS viewers. One viewer to showcase all the tourist attractions located throughout the county, and the other to show all the Real Property data associated with all the parcels throughout the county. Cattaraugus County hired Southern Tier West because of their experience in the internet mapping department and because of their ability to host the websites on their servers.

Participants and Resource Contributions

- **Cattaraugus County** -- contributed funding, staff time, and data.
- **Southern Tier West RP&DB** -- contributed staff time, data, software, and hardware.

Time Frame

Date Partnership Began: 8/8/02

Completion Date: Ongoing

Deliverables

Two interactive map viewers.

Brief Summary of Partnership

The partnership has faired very well. Both entities have been able to feed off each others ideas. New applications have evolved from those ideas. The goal is ongoing, but continues to be accomplished.

Additional Information Available On-line

<http://www.cattco.org/maps/index.asp?did=34>

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Information last updated: Sept. 4, 2003

GIS Partnership Summary

New York Statewide Digital Orthoimagery Program (NYS DOP)



2009 GIS Partnership Award Winner

Partnership Purpose and Goal

The goal of the NYSDOP is to deliver consistently high quality orthoimagery and other related products in a manner which offers economies of scale combined with flexibility to customize for localized needs. To meet these goals, CSCIC, as the contract holder, has worked in partnerships with numerous Federal, State, County, and Local government agencies. In turn, these partners have formed partnerships of their own to pool resources. Most of the following focuses on financial aspects of partnerships, but the data and knowledge sharing portions of these partnerships have been very valuable

Participants and Resource Contributions

Contribution is financial support unless otherwise noted; nearly all are members of the Cooperative. Many more entities are partners as data users, especially those who have provided useful feedback.

State Agencies: CSCIC, NYSDOT (Funding and technical), NYSDEC (funding, technical, and field staff), Thruway, NYS DOH (technical), Ag & Mkts (technical), OFT (technical), Elmira-Chemung Transportation Council, MTA-LIRR.

Counties: Chautauqua (funding and data), Chemung, Yates (funding and data), Tompkins, St Lawrence, Warren, Schenectady, Otsego, Greene, Fulton, Montgomery, Oneida, Otsego, Ulster, Dutchess (funding and data), Putnam, Westchester (funding and data), Rockland (funding and data), Suffolk, Sullivan, Nassau (funding and data), New York City DOITT and DEP (funding and data).

Local: City of Newburgh, Village of Watkins Glen, Village of Montour Falls.

Federal: USGS (funding and web service), NGA, USDA, DOD (Fort Drum), FEMA.

Time Frame

Date Partnership Began: March 2000

Completion Date: On-going

Deliverables

High resolution and accuracy digital orthoimagery which is delivered to Federal, State, and County agencies and is made available through the GIS Clearinghouse and a web service.

Other products related to ortho production, such as digital stereo-imagery which has been distributed in response to requests for DTM compilation and wetland delineation projects. The rough DTM files need for orthorectification have also been shared for initial site surveys by State agencies. Checkpoints used to confirm the accuracy of the NYSDOP imagery have been shared with USDA to help confirm the accuracy of the NAIP imagery.

LIDAR data meeting FEMA Flood Map Update DTM requirements which has been shared with Federal, State, County, and Local agencies and which is expected to be made available through the Clearinghouse.

Brief Summary of Partnership

The success of the NYSDOP is largely based on the success of the partnerships which support it, thus the partnerships must be considered successful. While funding partnerships have varied from year to year, the constant technical support supplied by the NYSDOT Photogrammetry Section has been key in ensuring high quality deliverables. Funding partnerships have taken two forms: the more common funding to upgrade the base deliverables, and the less common but critically important funding to support the program in more general fashion. While all partnerships are important, examples of local upgrade partnerships which stand out include the Elmira-Chemung Transportation Council's work with Chemung County (2006) and villages in Schuyler County (2007), and Suffolk County's work to partner with towns and the LIRR in 2007. When funding partnerships are created to address localized needs, the partners save money compared to a separate stand-alone contract and gain from the involvement of CSCIC and NYSDOT staff. At the same time, the upgraded imagery is widely available because of CSCIC's commitment to the Data Sharing Cooperative and the GIS Clearinghouse.

The CSCIC-USGS partnership has become critical to the continued success of the NYSDOP. Frank Kenney, the USGS Liaison to New York State, has led the way to making USGS funding for coverage of key urban areas and general support a nearly sure-thing. This predictability has made planning for upcoming years significantly less tenuous. At the other end of the process, USGS has provided a web mapping service which helps make the final orthoimagery even more widely available.

The NYSDOP has evolved based on input from partners. This includes the change from panchromatic imagery in rural areas to natural color, the more recent transition to 4-band orthoimagery to benefit users of CIR imagery, and the reworking of contract language so upgrades could be applied on more customizable areas that often match project and funding footprints. Based on the success of partnerships for orthoimagery production, the NYSDOP contract was expanded in 2008 to include LIDAR collection and processing. This has proved capable of meeting demands from NYS DEC and NYC DEP for data to update FEMA flood maps while also ensuring the data will be made widely available. In addition, CSCIC has been able to use its contacts from previous partnerships to foster collaboration on LIDAR projects.

Including all orthoimagery and LIDAR production through the current 2009 project, the NYSDOP has covered approximately \$21.3-million in deliverables and contract services. Funding sources have been distributed as shown below.

Source	Approximate Funding	Percent of Total
CSCIC (NYS Funds)	\$ 14,000,000	66%
Other State Agencies	\$ 900,000	4%
Counties	\$ 4,400,000	21%
Federal	\$ 2,000,000	9%

The importance of funding partnerships was shown in stark fashion in late 2008. Outreach for the planned 2009 NYSDOP production had already been done, and funding commitments were in hand from USGS, NYC DEP, Dutchess County, and Ulster County. In December, as budget adjustments were being made at all State Agencies, CSCIC was informed that the expected base funding for 2009 had been eliminated. By leveraging the standing commitments from other entities, CSCIC was able to get enough funding to meet the State's portion of the costs for the upgraded areas, as well as obtaining funds to update the remainder of the Adirondacks. Without those partnerships, CSCIC would have had a much more difficult task to get any funds restored.

The biggest challenge to successful NYSDOP partnerships has been the lack of accurate projections of coverage. Based on this feedback, CSCIC launched efforts to release plans for future yearly coverage earlier in the process. This effort has been partly successful, but the current fiscal climate has made funding, and thus coverage extents, much less predictable while also making projections more tenuous.

Additional Information Available On-line

<http://gis.ny.gov/gateway/mg/>

GIS Partnership Summary

NYC Watershed Protection Program Tax Mapping Project with Watershed Counties

Partnership Purpose and Goal

The NYC Watershed Tax Mapping Project developed out of mutual interest on the part of the City of New York Department of Environmental Protection (NYCDEP), the State Office of Real Property Services (NYSORPS), and many of the eight NYC Watershed counties to develop digital tax maps in a consistent format. The City sought digital parcel data in a single watershed-wide standard format to facilitate analysis of land use in the NYC Watershed as a part of its Watershed Protection Program GIS analysis. The State sought to promote digital tax mapping and to develop a single digital map format. The Counties sought digital parcel data to promote efficiencies in tax map operations as well as to utilize parcel data in non-tax mapping applications.

Participants and Resource Contributions

- **NYSORPS** - Provides extensive project management, training and QA/QC using existing staff;
- **Counties of Putnam, Dutchess, Ulster, Schoharie, Greene and Delaware** have participated. Sullivan County declined participation; however, NYC contracted with ORPS to complete a parcel boundary cover of Sullivan anyhow, but it will not be maintained by the county.
- **Westchester County** - eight of the twelve watershed towns are participating; participating local governments provide staff to evaluate draft data and dedicate staff to maintain data in the future;
- **NYCDEP** - provided all of the direct project funding (project's total budgeted funds are \$670,000):
 - \$350,000 for digitizing
 - \$120,000 for project management by NYSORPS
 - \$200,000 for hardware/software and training (based on \$25,000 for each participating county)

Time Frame

Date Partnership Began: December 1994

Completion Date: NYSORPS contract expired March 31, 1999; NYC agreements with localities for data updates continue for a period of at least ten years.

Deliverables

Digital tax parcel data in a consistent format for the counties covered by the New York City Watershed.

Brief Summary of Partnership

The New York City water supply system serves nearly eight million residents of the City and one million people who live in Westchester, Putnam, Orange and Ulster Counties. The source of this water supply, world-renowned for its high quality and excellent taste, is a watershed that crosses eight New York State counties and includes most of the rural Catskill Mountains and many suburbs north of the City. More than 250,000 people live in the 73 towns, villages and hamlets within the watershed. The New York City Department of Environmental Protection (DEP) is responsible for protecting and operating this surface water supply system, the largest gravity-fed system in the world.

To facilitate GIS-based land use analysis as a part of its Watershed Protection Program, the City entered into an inter-governmental agreement with the State to develop digital tax parcel data for the NYC watershed. The State was responsible for developing a digital data format, negotiating with watershed counties on their participation, procuring and managing digitizing services from an outside vendor and QA/QC. Participating counties agreed to provide the City with at least ten annual updates of the tax map data and associated assessment information, in return for the data and \$25,000 in "seed money" for hardware, software and/or training. Based on a needs assessment by NYSORPS, the counties spent the seed money on whatever combination of items would facilitate the counties data maintenance efforts (most purchases involved computers, digitizing tables, plotters, software, etc.).

Currently, data are complete for Ulster, Schoharie, Sullivan and Greene Counties in the West-of-Hudson watershed and for Putnam County and approximately four towns within Westchester County in the East-of-Hudson watershed. Still pending are Delaware and Dutchess Counties, and the remaining Westchester towns.

Additional Information Available On-line

None

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Information last updated: November 8, 1999

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GIS Partnership Summary

NYS Department of Health's Public Water Supply Spatial Data Collection Project



2002 GIS Partnership Award Winner

Partnership Purpose and Goal

The purpose of establishing this partnership is to establish a means of collecting spatial information regarding public water supplies. Water supply information collected includes accurate locations for water sources, other facilities and water districts from the over 11,500 public water supply systems in New York.

Participants and Resource Contributions

- **NYS Department of Health, Center for Environmental Health** - remote citrix terminals in each participant office, access to central Safe Drinking Water Information System database, funding and project oversight.
- **NYS Department of Health district offices**- Nine field offices, funding, field staff, GPS units. 36 Counties
- **NYC** - All local jurisdictions not served by State Health Department district offices, providing field staff, data entry, GPS locations, map interpolations, quality control responses.
- **USEPA** - funding, Quality control, data verification
- **University at Albany, Geography and Planning Department** - Field and GIS staff

Time Frame

Date Partnership Began: September 1999

Completion Date: On-going

Deliverables

Deliverables include accurate latitudes and longitudes for water sources including wells, intakes, and springs, along with treatment plant locations. Water districts serving 1000 or more people are also deliverables. Availability of specific location information is limited based on security concerns.

Brief Summary of Partnership

This partnership reflects the state's organization regarding protection of public drinking water. Each county or district office and New York City has direct responsibility for protection of the state's 11,500 public drinking water systems. One GIS-oriented task of this partnership is to collect spatial information regarding water systems in support of source water assessments, public health evaluations, and system security. The partnership hinges on common access to a central state database and means of tracking progress in achieving goals in acquiring spatial data. The partnership has worked extremely well in collecting initial data, having entered over 15,500 locations out of the over 16,000 individual source locations to date. All locational data is subjected to a coarse on-line quality filter and GIS-based logical quality control protocol test. Locational errors are returned to partners for subsequent verification and correction.

Additional Information Available On-line

N/A

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Information last updated: April 2013

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GIS Partnership Summary

Schoharie County's Emergency Management Project

Partnership Purpose and Goal

Schoharie County's Emergency Management Project seeks to reduce the impact of future flooding by bringing a much higher level of accuracy and detail to flooding analysis and prediction. As a result of flooding in 1996 and a Federal Disaster Area declaration, funding became available which the New York Power Authority (NYPA) and Schoharie County were able to leverage to enhance emergency management by using digital mapping as a base for a semi-automated flood forecast model. Additional outcomes include better hazard mitigation through land use planning and coordination of emergency decisions including a "reverse 911" system.

Participants and Resource Contributions

- **NYPA** - Facilitated the project's start and scope expansion, and provided technical expertise;
- **Schoharie County** - Sought initial project funding, made E-911 resources available (\$200,000), and digitized tax maps (\$120,000);
- **NYSDEC** - Contract Management, data development, and additional funding procurement (\$231,900);
- **FEMA** - Original Hazard Mitigation grant (\$189,500), funding for Flood Insurance Rate Map (FIRM) development (\$250,000);
- **NYCDEP** - Funding for NY City watershed protection:
 - \$9,350 for digitizing
 - \$25,000 for hardware/software and training
- **PAR Technologies** - Flood modeling and reverse 911 engineering.

Time Frame

Date Partnership Began: March 1996

Completion Date: September 2000 (anticipated)

Deliverables

- Countywide E-911 and Reverse 911 in Flood Prone Areas: Spring 2000
- Digital FIRMS: Fall 2000
- Real Property Tax Service and Land Use Planning Hardware, Software and Training
- Digital Orthoimagery, Hydrography, Hypsography, and Digital Elevation Data
- Digitized Tax Parcels
- Flood Models

Brief Summary of Partnership

The floods of 1996 were devastating to Schoharie County. However, from the Federal Disaster declaration came funding for enhancing emergency management by using digital mapping as a base for a semi-automated flood forecast model. New York Power Authority (NYPA) employees met with Schoharie County government officials to help implement a "reverse 911" system that can alert residents and businesses of impending floods. NYPA, which has a hydro-electric project on the Schoharie Creek, knew the resource people who could help make it happen.

NYPA facilitated a NYS Department of Environmental Conservation (DEC) - County connection for a GIS mapping test project. DEC agreed to provide high resolution digital aerial imagery, hypsography, hydrography, and digital elevation data, and contract management with the project consultant, PAR Technologies of Utica, NY. Schoharie County had already begun to map the location of each telephone in the county for its Enhanced-911 (E-911) system using Global Positioning System (GPS) technology. Readings of longitude, latitude and elevation accurate to less than one meter have been taken in the flood prone areas, whereas other areas will have less accurate longitude and latitude readings. PAR will develop the flood models, and design the link between the models and the E-911 system. Further, the digital map data improved by PAR and DEC will bring a higher level of accuracy and detail to flooding analysis and prediction, and enable better hazard mitigation through land use planning and coordination of emergency decisions.

Funds to pay PAR Technologies come from a Hazard Mitigation Grant written following the 1996 floods. Federal Emergency Management Administration (FEMA) interest allowed DEC to request and receive funding for digital development of flood models and Flood Insurance Rate Maps (FIRMS). Current FIRMS in high risk areas of the County were developed by costly ground surveys conducted by the Army Corps of Engineers. Other municipalities had maps with gray zones drawn from topographic maps. Other funds came from the Memorandum of

Agreement between the City of New York and watershed communities which was used for computer hardware, software and training for the land use planning and Real Property Tax Service aspects of the projects. The agreement also provides for the digitization of all tax parcels in the watershed. Schoharie County committed to fund the digitizing of the rest of the County's tax maps.

Currently, the County is still awaiting the digital data and the flood models. It is anticipated that full E-911 service and the reverse-911 system will be operational in the spring of 2000, and the new FIRMs are expected to be available around the fall of 2000.

Additional Information Available On-line
None

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Information last updated: March 16, 2000

GIS Partnership Summary

Watershed Boundary Dataset (WBD)

Partnership Purpose and Goal:

The Watershed Boundary Dataset (WBD) is the creation of a consistent, seamless, and hierarchical watershed boundary dataset based on topographic and hydrologic features following the "Federal Standards for Delineation of Hydrologic Unit Boundaries" for consistent watershed coverage across the nation. The WBD effort in New York consists of the WBD Development Team, a collaborative partnership between state, federal and university to complete the delineation of watersheds and subwatersheds in a format for local use that will complement other seamless databases that meet National Map Accuracy Standards (NMAS). WBD will contain 10 and 12 digit hydrologic unit boundaries.

Participants and Resource Contributions

NY NRCS, Cathy Keenan, WBD Co-Coordinator, Coordination of: data acquisition, organizational operations, metadata and communications with National WBD Coordinators.

NY USGS, Douglas Freehafer, WBD Co-Coordinator, Coordinates and performs: technical oversight and support to Development Team, QAQC, ftp data sharing site, statewide project status.

NYS DEC, Tim Daly, WBD Data Development

SUNY ESF, Lee Herrington and Horace Shaw, WBD Data Development

EPA Region 3, Don Evans, WBD Data Development

EPA Region 5, Milo Anderson, WBD Data Development

VT NRCS, Reed Sims, WBD Data Development, QAQC, Interstate Coordination

Date Partnership Began: November 2003

Completed: No

Deliverables:

Nationally certified WBD will be available for download through the New York State Clearinghouse (<http://gis.ny.gov/>) and [USDA Geospatial Gateway \(http://datagateway.nrcs.usda.gov/\)](http://datagateway.nrcs.usda.gov/).

Brief Summary of Partnership:

The WBD Development Team received training from USGS and NRCS National WBD Coordinators. The 'Developers' selected watershed basins where they had acquired local knowledge, expertise and funding sources to complete the WBD data development. Yearly meetings are held at the NYS GIS Conference to organize, support and troubleshoot issues and problems. Net meetings, teleconferences and emails 'in between' these meetings provide ongoing support and communication in order to maintain consistent data development.

USGS maintains the ftp site to manage versions of WBD data during development stages, to share between developers and make available for QAQC. Individual WBD Developers initiate edge matching between their assigned basins as needed. An ongoing instate review process is being completed by USGS and NRCS. Coordination is ongoing with states adjacent to New York to ensure consistent interstate watershed coverage.

After extensive WBD instate review, completion of metadata, and upon concurrence of the WBD Developers Team, the New York WBD will be submitted for national certification

(<ftp://ftp-fc.sc.egov.usda.gov/NCGC/products/watershed/hu-standards.pdf>).

Additional Information Available On-line:

<http://www.ncgc.nrcs.usda.gov/products/datasets/watershed/>

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GIS Partnership Summary

St. Lawrence County's Biomass Inventory Project

Partnership Purpose and Goal

The goal of the biomass inventory project was to identify the location and quantity of land areas within St. Lawrence County suitable for grass and woody biomass resource production. These areas were identified using soil type, elevation, wetland, land use, and real property assessment data from a variety of federal, state and local sources.

This partnership between a county government and a private university was necessary due to the resource limitations of the county government. The County wished to inventory its biomass production potential but did not have the computer hardware and time or knowledge base to carry out this task. The goal of creating an inventory for the County and providing a learning opportunity, with course credit for a senior level student, was met.

Participants and Resource Contributions

- **St. Lawrence County** - provided the original framework and project description as well as periodic supervision and consultation as the project developed.
- **St. Lawrence University** - provided all hardware, software, and plotting resources, as well as technical assistance, troubleshooting and academic advisement.

Time Frame

Date Partnership Began: November 2008

Completion Date: May 2008

Deliverables

Countywide maps in hard copy and digital format showing grassland and forest land that is available for growing biomass that is unconstrained by soil type, wetland and slope. Lands are demarcated by parcel boundary and broken down by public or private ownership. Data sets listing parcels and acreages are provided.

Brief Summary of Partnership

The partnership worked extremely well. The St. Lawrence University student worked closely with the University's GIS Specialist, his academic advisor and a representative from the St. Lawrence County Planning Office to develop the parameters of the project. Restrictive parameters were developed in an effort to avoid possible exaggeration of biomass resources.

The data was analyzed using GIS (Geographic Information System) software. The GIS model was designed to generate a very conservative estimate. For example, all wetlands and bodies of water were assigned a 100 foot buffer. As a result, lands that might be otherwise suited for growing grass or woody biomass were excluded due to their proximity to a wetland or water body. Land was also excluded if it had steep slope, was used for any type of existing agricultural operation, had good quality soil (soil that could better be used for growing production agricultural crops), was classified as primitive or wilderness areas within the Adirondack Park, or had a real property assessment not suitable for growing biomass (a commercial, industrial, residential etc. assessment).

As a result of these restrictive parameters, large amounts of land were removed from consideration; this resulted in a very conservative estimate of production capability.

St. Lawrence County lands determined to be suitable for grass and woody biomass production were divided into four categories:

- | | |
|------------------------------|-----------------|
| • Privately owned grassland: | 14,251.20 acres |
| • Publicly owned grassland: | 324.380 acres |
| • Privately owned forest: | 96,912.20 acres |
| • Publicly owned forest: | 18,670.00 acres |

Using the data produced it will be possible to generate less restrictive estimates by dropping out or reducing the limiting parameters.

All parties worked well together and a deliverable was produced on time. Additional work will be undertaken by the County in partnership

with the University to make the spatial data more accessible to the general public.

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GIS Partnership Summary

Geographic Information Systems Electric Utility Emergency Reporting Project

Partnership Purpose and Goal

Geographic Information Systems Electric Utility's Emergency Reporting Project's purpose was to provide the 7 major electric companies in New York State and the Department of Public Service (DPS) with an integrated tool to allow DPS to receive, process, analyze, and report electric outage data quickly and in a uniform format during emergency outages. The information is then disseminated to other agencies to assist in deployment of essential resources and services. The partnership was necessary insure that the information provided met the needs (content and format) of the agencies that respond to emergency events at the State Emergency Operations Center.

Participants and Resource Contributions

New York State Agency Participants:

- **Department of Public Service, Lead Agency**
- **Office for Technology**
- **Department of State**
- **Department of Transportation**
- **State Emergency Management Office**

Private Sector - GIS contractor:

- **Bowne Management Systems, Inc.**
- **Central Hudson Gas & Electric Corporation, Poughkeepsie, NY**
- **Consolidated Edison Co., NYC, Staff Participation**
- **Key Span (LIPA), Hicksville, NY**
- **Niagara Mohawk Power Corporation, Syracuse, NY**
- **NYS Electric & Gas Corporation, Binghamton, NY**
- **Orange & Rockland Utilities, Inc., Spring Valley, NY**
- **Rochester Gas & Electric Corporation, Rochester, NY**

Time Frame

Date Partnership Began: 07/1999

Completion Date: 06/2001

Deliverables

- The first stage was to have a prototype system completed and operational during the Y2K event (December 31, 1999). Deliverables: Inventory and Analysis Document, Evaluate Design Options, Geospatial and Relational Database Development, DPS hardware set-up, Beta delivery of system, Y2K event.
- The second stage (post Y2K event) included design modifications and implementation, application enhancements, data modifications, system administration, training, final system installation. There are three (3) final documents: Part I. System Documentation, Part II. User Documentation, and Part III. Administration and Staffing.

Availability of Data:

- The GIS Cooperative maintains a list of datasets available from DPS. These datasets have been modified and updated as a result of this project.
- Documents are available upon request.

Brief Summary of Partnership

The GIS Electric Outage Reporting System (EORS) benefited greatly from the Partnership formed for the development of this Application. The State Emergency Management Office (SEMO) coordinates state relief efforts during an emergency situation. This is an application that has

significant value during an Emergency Electric Outage situation and will provide access to more timely and accurate information. It will provide the state agencies the ability to conduct emergency situation assessments and facilitate decision making regarding appropriate responses in their areas of responsibility. All of the participants have a vital role during these events. The expertise that they contributed in GIS as well as their knowledge of their areas of responsibility greatly enhanced the ability of EORS to provide the information necessary during these situations.

Overall, the Project has proved to be a valuable experience for participants and some unexpected benefits were encountered. The Electric utilities, under great pressure about Y2K readiness were not overly enthused in the beginning. By the end of the project they realized that standardizing and automating the reports saved them considerable time and effort during emergency situations when their main objective is the restoration of electricity.

Additional Information Available On-line None

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Information last updated: September 5, 2001

GIS Partnership Summary

Response to North Country Ice Storm 1998

Partnership Purpose and Goal

Support Ice Storm '98 emergency response operations by providing visual display and spatial analysis of the disaster situation.

Participants and Resource Contributions

- **State Emergency Management Office** - Primary oversight, coordination, and mobilization headquarters
- **State Departments of State, Transportation, Environmental Conservation, Health, Public Service, the Adirondack Park Agency, and Office of Real Property Services** - GIS assistance.
- **Niagara Mohawk, NYS Electric & Gas** - power outage data
- **American Red Cross** - Shelter information
- **New York State Agriculture and Markets** - Dairy Farm information
- **FEMA** - GIS hardware
- **MapInfo** - software and technical support.

Time Frame

Date Partnership Began: January 8, 1998

Completion Date: February 1998

Deliverables

Conversion of tabular and text based data into GIS map displays for emergency response analysis and operations.

Brief Summary of Partnership

In response to Ice Storm '98, the GIS personnel and resources from a number of agencies and the private sector, were mobilized to support disaster operations at the State Emergency Operations Center (EOC) in Albany, N.Y.

The primary application of GIS for this event was turning the blizzard of text based information being compiled at the EOC into map displays, facilitating the comprehension, communication and coordination of the response operations. In addition, the mapping and updating of a wide range of information, including power outages, shelter locations and occupancy, road conditions, generator deployments, dairy farms, school district closings, and levels of ice accumulation, allowed a number of critical spatial relationships to become apparent. This included concentrations of populations without power; selection and proximity to staging areas; resource deployments and unmet needs.

Additional Information Available On-line

<http://www.nysemo.state.ny.us/IceStorm98/icestorm98.htm>

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Information last updated: November 17, 1999

GIS Partnership Summary

Rockland County's Emergency Response Planning

Partnership Purpose and Goal

Rockland County and State officials have developed detailed emergency response plans for the area within 10 miles of the Indian Point Nuclear Power Plants, and have previously relied solely on a publication entitled "Planning for Emergencies" to disseminate the emergency plans to the public. The Partnership's goal was to improve the quality of outreach to Rockland County residents by providing a regularly updated website, with an easily accessible way for users to obtain emergency plans specific to their street address. Thus, the Indian Point Interactive GIS Mapping System was created, a vast improvement for residents who previously relied on having to figure out their emergency information from a small scale printed map enclosed in "Planning for Emergencies". Partnerships were necessary to bring the technical GIS expertise of the Rockland County Planning Department (the County's lead agency in GIS development) and consultants, Intelligent Decisions Systems Inc., together with the funding and emergency planning expertise of the Rockland County Office of Fire and Emergency Services.

Participants and Resource Contributions

- **ROCKLAND COUNTY DEPARTMENT OF PLANNING** – provided and developed data and acted as liaison between IDSi (the consultants) and the Rockland County Office of Fire and Emergency Services. Also beta tested the site as it was developed. Member of the NYS GIS Data Sharing Cooperative.
- **ROCKLAND COUNTY OFFICE OF FIRE AND EMERGENCY SERVICES** – provided source for emergency data and funding for project.
- **INTELLIGENT DECISIONS SYSTEMS, Inc. (IDSi)** – provided technical support in development and hosting the site using a customized ArcIMS application using ArcIMS ActiveX Connector, Active Server Pages (ASP) and Javascript.

Time Frame

Date Partnership Began: July, 2002

Completion Date: August, 2002

Deliverables

Expected deliverable was an interactive online GIS system available to the public for emergency planning purposes. Users were to have an interactive, user-friendly site for the average County resident to easily operate so they could access emergency plans for their area. We expected users to be able to input their location by a street address, intersection, PIN number or Section/Block/Lot. Users were to be able to see a small scale County map, with their location identified in relation to the Indian Point Nuclear Power Plants. A map layer of the 10 mile zone around the power plants was to be visible so residents could quickly identify if they are within 1 of thirteen Emergency Response Planning Areas(ERPAs). If so, a report was to be generated for residents showing their ERPA number and detailing corresponding evacuation routes, directions to reception centers, and information on emergency broadcast stations. In addition, to complement the report, various map screens were to be available.

Users should then be able to zoom to a larger scale map to see the outline of their parcel and more detailed surrounding information, such as local streets and landmarks. Maps and reports were to be formatted for easy printing. Additional features were to include the capability for users to turn on or off any of the data layers, and also have the capability to identify map features interactively.

The website was to be user-friendly to first-time users and novices. A "Start Here" flashing button was added to guide users to where they should start their address search. A "First Time Users" link was established to familiarize users with the site, linking them to a graphic document explaining the elements of the website. An online Users Guide was developed explaining how to use the website (ie: how to do searches, explanations of all buttons, etc).

An important feature of the project was for the design of website to offer flexibility and expansion capabilities in meeting needs of other County agencies. Recently, the County enacted the 48 Hour Neighbor Notification law, requiring landscapers to notify neighbors when pesticides were being applied. The website was easily expanded so that users could obtain a login account to have the capability to create buffers around the parcel being treated and create mailing labels to facilitate notification by mail, thus saving time in the field.

The final product met or exceeded expectations of all deliverables and greatly satisfied County agencies involved in the partnership. It will be used as a model for other county programs when there is a necessity to interactively disseminate to the public data with a geographic component.

Brief Summary of Partnership

The partnership worked extremely well. The Planning Department – GIS Unit has worked with the Office of Fire and Emergency Services in the past to develop data and custom GIS applications. Therefore the Planning Department was familiar with their needs and already had a very good inter-office relationship with them. Bringing in Intelligent Decisions Systems, Inc. (IDSi) as the consultant to provide development and hosting of the GIS website proved to be highly effective and economical.

Once the Planning Department provided IDSi with the GIS data needed for the site, the implementation was the expected one month! IDSi worked within the County's budget and always accommodated the ever-changing requests as the site was being developed. IDSi made it very easy for the beta-testers (Planning Department and Office of Fire & Emergency Services) to communicate desired changes to the website. IDSi created an on-line form to log requests. An additional web page was created by IDSi so the beta-testers could see the status of their requests. Comments were added to the status form by IDSi to inform the County of any special needs on their part to accommodate the beta-tester's requests. IDSi worked hard to meet the County's deadlines and were always easy to reach whether by phone or email.

The Planning Department anticipates a very good working relationship with IDSi as we continue to update the GIS data and expand the website's functionality.

Further cooperation was needed by additional County agencies to market the site. The County's MIS Department helped to establish a prominent link to the Indian Point website on the official County website (www.co.rockland.ny.us). The website has also been promoted through a County-issued press release, resulting in newspaper and online articles. IDSi has written an article to appear in GIS industry periodicals. The site is also being registered with ESRI's IMS User Registry.

Additional Information Available On-line

<http://www.idsigis.com/rockland/start.asp?+fw=400>

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Information last updated: March 5, 2003

GIS Partnership Summary

Schenectady Internet Mapping Systems (SIMS)

Partnership Purpose and Goal

To foster economic development and community revitalization projects in Schenectady County by enabling municipal and economic development organizations to better manage and analyze geographic information. The goal is to provide partners with convenient access to a powerful GIS with data and functions pertinent to economic development and community revitalization projects.

Participants and Resource Contributions

- Schenectady County (Department of Planning) - lead agency
- Applied GIS, Inc. - consultant/developer
- Schenectady Metroplex Development Authority - partner
- Town of Niskayuna - partner
- Town of Rotterdam - partner
- Downtown Schenectady Improvement Corporation - partner

Time Frame

Date Partnership Began: August 2001

Completion Date: August 2003

Deliverables

Schenectady Internet Mapping System (SIMS): a web enabled GIS open to partnership members only. The GIS provides users with access to a large inventory or map layers and key functionality to locate features, building mailing lists, edit project databases, and print maps.

Brief Summary of Partnership

The impetus of the project originated within the community-based economic development agencies of Schenectady County who sought access to and analysis of geographic information. These agencies, as well as their counter parts in local government, typically relied upon traditional hardcopy methods for storing and updating information about properties. Since many agencies routinely collaborated on development projects there were inefficiencies in the non-relational approaches to mapping and analyzing the impact of a project as well as redundancies to the storage and management of the same data (hardcopy and digital) by multiple agencies. The economic development agencies understood that GIS could improve all facets of revitalization planning and sought assistance from the County Department of Planning.

The Planning Department had long been an advocate for GIS and a source of technical support to municipal and community-based agencies in the County. Recognizing similar needs across a wider audience of users in the county, the Planning Department took the lead in assembling a group of partners to invest in a solution that would provide for a robust GIS that could serve multiple purposes. For example, the Department had long understood that municipalities lacked the resources to fully implement GIS across multiple departments. The Department looked at the emerging Internet GIS technology as a way to integrate data needed by multiple partners and deliver functionality that could be customized to meet individual needs - no matter the location of the office, unit or division of the organization.

The Department of Planning approached all municipalities and economic development agencies in the county with the concept of an Internet GIS application. The Department asked for an on-going commitment from the agencies to support the GIS. Initially four agencies signed: Schenectady Metroplex Development Authority, Town of Niskayuna, Town of Rotterdam, and the Downtown Schenectady Improvement Corporation. The County provided project leadership and contributed a significant amount to the up front cost of development (software customization) and hardware (Internet server). All partners contributed monetarily to the project with Applied GIS, Inc., contracted for all technical components of the project.

In August 2003 the Schenectady Internet Mapping Systems (SIMS) was officially launched. SIMS integrates information from several independent agencies, fostering collaboration among local government and community organizations. This collaboration allows for a more efficient delivery of GIS tools and services to the partners. The chief tangible benefit is that partner agencies have a robust, easy-to-use GIS for use in neighborhood revitalization efforts such as targeting urban in-fill projects, marketing available properties, planning for infrastructure improvements, and tracking commercial and neighborhood redevelopment projects.

During development of SIMS, the Department was able to demonstrate the features of SIMS to other perspective partners including the City of Schenectady, Town of Glenville and the Schenectady Chamber of Commerce. In 2004, the City, town and Chamber anticipate becoming members of the SIMS partnership.

Additional Information Available On-line

None

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Information last updated: Sept. 4, 2003

GIS Partnership Summary

Suffolk County GIS Consortium for Color Digital Aerial Photography

Partnership Purpose and Goal

A Suffolk County consortium of GIS users determined that a current digital image map base covering the entire land area of the County would provide benefits to many agencies, particularly those with responsibility in the areas of planning, public safety and public works. A Suffolk County aerial photography contract, in spring of 1996, resulted in a digital image map base of County-wide 1"=1200' scale scanned and registered digital photography (2.5 ft pixel). The goal was an improved, 1999, 1"=1000' scale, one foot pixel, color digital aerial photo base-map which can be digitally positioned under data sets for use with GIS products such as MapInfo and ArcView.

Participants and Resource Contributions

1996 Digital Aerial Photography Base

Suffolk County Police Department - \$90,000 (sole project funding)

1999 Color Digital Aerial Photography Base

Suffolk County Police Department - \$30,000

Other County agencies (Planning, MIS, Health, DPW) - \$16,900

Suffolk County Water Authority - \$30,000

Suffolk County's 10 towns, with each town contributing a percent equal to it's area toward the cost (Babylon 5.7%, Brookhaven 26.1%, Easthampton 10.0%, Huntington 8.3%, Islip 10.8%, Riverhead 6.4%, Shelter Island 2.0%, Southold 8.7%, Smithtown 5.1%, Southampton 16.4%) - \$29,400

For both projects, data was made available to Suffolk County's 10 towns; state and federal Agencies including the New York State Department of State, New York State Department of Environmental Conservation, New York State Department of Transportation, Fire Island National Seashore, U.S. Army Corps of Engineers, National Cancer Institute, US Fish and Wildlife, and Brookhaven National Lab; Suffolk County departments of Public Works (Vector Control, Transportation, Sewage & Water ways), Fire Rescue, Civil Service (Management Information Services), Planning, Department of Health Services (Office of Ecology, water monitoring), Real Property Tax Service Agency, Soil and Water; and other groups including Suffolk County Water Authority, Suffolk Community College, Suffolk County Library, Long Island Railroad, the Nature Conservancy, Cornell Cooperative Extension as well as numerous fire departments, schools and municipalities.

Time Frame

Date Partnership Began: Nov 1998

Completion Date: June 2000

Deliverables

Color photography, CD-ROMs with resampled 8 bit tiff images of the photography, and an UNLIMITED LICENSE TO USE AND DISTRIBUTE THE DIGITAL PRODUCTS AMONG THE LICENSED ENTITIES TO ALL LEVELS OF GOVERNMENT AND UNLIMITED LICENSE IN THE UNLIMITED PRODUCTION OF HARDCOPY PRODUCTS.

Brief Summary of Partnership

In 1999 this consortium of GIS users joined in the acquisition of Color Digital Aerial photography at an improved 1"= 1000' scale. The Color Digital Aerial photo base map can be digitally positioned under GIS data sets, as source aerial photography prior to leaf out in the spring of 1999.

Any other agencies providing services to a town can have access to Color Digital Aerial photography as a GIS base. This GIS consortium was possible because the towns and county agencies could buy off of a County contract with the exception of the S.C.W.A. (a state agency) which had to give money to the county by resolution. This economy of scale allows \$100,000 worth of Digital imagery for a proportional fraction of the cost. The 1999 GIS consortium of Color Digital Aerial Photography was done without the need for any agreements other than the establishment of a county contract and each agency covering their respective cost.

Additional Information Available On-line

<http://gis.co.suffolk.ny.us>

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GIS Partnership Summary

GIS Web Hosting Service Service for County and Local Government

Partnership Purpose and Goal:

This was a Pilot project to determine the usefulness of having a GIS Web Hosting Service accessible for county and local government. The pilot included the development of an online GIS application by a private vendor as well as web hosting services for 4 local governments for a one year period. The focus for the application is to support everyday business uses for people accessing/utilizing parcel (land records) data.

Participants and Resource Contributions: (* = NYS Cooperative Member)

***NYS Office of Cyber Security and Critical Infrastructure Coordination:** funding, data for the application, staff

***Delaware County:** staff, data for the application

***Tioga County:** staff, data for the application

***Town of Brunswick:** staff, data for the application

fountains spatial (Applied GIS): hardware, software, technical staff, hosting, end user training

Date Partnership Began: June, 2005

Completed: June, 2006

Deliverables:

Parcel (land records) application delivered to each of the government participants and published on publicly accessible websites, other than Tioga County, whose application remained for in-house use only.

Brief Summary of Partnership:

The NYS Office of Cyber Security and Critical Infrastructure (CSCIC) invited proposals for a Local Government GIS Web hosting pilot project. The pilot included the development of a powerful and easy-to-use, web-based GIS application as well as web hosting services for four local governments for a one year period. This application included a set of high priority functionality selected to provide tangible and direct benefits to users in support of many of their common business requirements. The goal of the pilot was to demonstrate the usefulness of these types of sites so that development costs could be offered to municipalities on the New York State Procurement Contract for a discounted price to state and local government organizations. The focus for the application was to support everyday business uses for people accessing/utilizing parcel (land records) data.

Each of the web-based GIS applications included an extensive set of spatial data layers provided by CSCIC and other NYS agencies and up to 10 data layers provided by the local government. In particular, tax parcel boundaries, provided by the local governments, were a pivotal data layer on which much of the applications key functionality was based.

Overall, the partnership was a great success, as measured by monitoring of the number of "hits" to each public access site and through the feedback provided through an anonymous online feedback form. Between the four local government websites, more than 2.9 million hits were registered during the 1 year period. At the conclusion of this pilot project, CSCIC has gained valuable experience and feedback that will be evaluated when establishing potential future directions for this important initiative.

In addition, the online application has been a great success for the participating local governments. Delaware County, in particular, has secured funding for the continued support of the application beyond the CSCIC contract period and plans to grow the application to accommodate user needs.

Additional Information Available On-line:

www.giswebhost.org/clinton

www.gismaphost.com/delaware

www.giswebhost.org/brunswick

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GIS Partnership Summary

West Carthage Volunteer Fire Department

 2007 GIS Partnership Award Winner

Partnership Purpose and Goal:

To provide GIS services to a small community volunteer fire department to map fire hydrant locations as a color-coded document to be carried in every village emergency vehicle as well as distributed to neighboring fire districts. The goal of this project was to provide immediate, accurate information to drivers of emergency response vehicles as to the size and location of fire hydrants within the village proper.

Participants and Resource Contributions:

Village of West Carthage: Village of West Carthage Volunteer Fire Department required maps of hydrant locations.

Carthage Central High School: provided equipment, software and people to collect data and create the maps.

Equipment was a Thales Mobile Mapper Pro mapping grade GPS with post-processing differential correction, ESRI software ArcMap.

Date Partnership Began: 9/2005

Completed: 8/2006

Deliverables:

Street maps were created using the NYS GIS Clearinghouse ALIS road layers for Jefferson County, NY. One major map was produced showing the location of fire hydrants, color coded to indicate barrel diameter of the hydrant. This map was reproduced, laminated and placed in every fire department vehicle.

Brief Summary of Partnership:

Scott Pierce was a student in the Intro to GIS course offered at Carthage Central High School. One of the requisites of the course is to apply GIS as a problem solving tool. Scott was also a member of the West Carthage Volunteer Fire Department. He envisioned the connection between the mapping ability of the GIS software and the potential for decreasing access time to hydrants for volunteer firefighters.

Scott approached the instructor for the GIS class and the senior members of the volunteer firefighters to determine the need for such a map. Both entities agreed that this service could result in less access time to fire hydrants during a call, which translates into less property loss and potentially saving lives.

The Village gave the students permission to document the hydrants along with a list of attributes to record, such as installation date, barrel size, paint color and manufacturer. The hydrant was assigned as located at an intersection or along the street. A Thales Mobile Mapper Pro GPS was used to collect hydrant points and attributions. Post-processed locations were then imported to ESRI ArcMap desktop GIS solution for placement along with the ALIS road layer.

Final maps were adjusted for size and colors and then printed and laminated and placed in each fire department vehicle in the village as well as distribution to the Town of Wilna Fire District.

This cooperative project between the school, village and fire department also received second place in the New York Conference of Mayors Local Government Achievement Awards program in May, 2007.

National League of Cities:

<http://www.nlc.org/articles/articleitems/ncw72307/nycomawardwinners.aspx>

Additional Information Available On-line: None

Contact Information: *primary contact*

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GIS Partnership Summary

Year 2000 Emergency Preparedness Task Force

Partnership Purpose and Goal

In early 1999, New York State established a Year 2000 Task Force on Emergency Preparedness to ensure its readiness to be able to react to any potential crisis caused by Year 2000 (Y2K) related issues. Building on previous emergency management experiences, GIS was seen as essential to locating facilities affected by power outages, identifying and tracking deployed resources, and communicating the magnitude and interrelationship of problems. In order to provide this GIS support, a 20 person GIS Unit was established composed of staff from 10 State agencies.

Participants and Resource Contributions

- **Department of Environmental Conservation** - staff and data.
- **Department of Health** - staff and data development.
- **Department of Public Service** - staff and data and application development.
- **Department of State** - staff, equipment, data and application development, unit leadership.
- **Department of Taxation and Finance** - data and application development.
- **Department of Transportation** - staff, data and application development, and equipment.
- **Division of State Police** - staff and data.
- **Office of General Services** - data.
- **Office of Mental Health** - data.
- **Office of Real Property Services** - staff and data.
- **Office for Technology** - data, funding and equipment.
- **State Education Department** - staff and data development.
- **State Emergency Management Office** - staff and operational facilities.
- **Thruway Authority** - staff.

Time Frame

Date Partnership Began: April 1999

Completion Date: January 2000

Deliverables

As a result of the success of the GIS Unit for the Y2K Emergency Preparedness Task Force, a number of deliverables were derived:

1. Over 30 GIS datasets for created or improved datasets relating to emergency preparedness.
2. Several new applications were developed which provided geo-referenced data from live data feeds.
 - The Department of Public Service - power outage data from New York's major power companies.
 - The Department of Transportation - road condition data from DOT facilities across the State.
 - The Division of State Police - computerized reports from county Emergency Operation Centers across the State.
 - The Department of Tax & Finance - automated call-out application to provide status information from 2,500 high-risk occupancy facilities.
 - The State Emergency Management Office - mission requests from incoming phone calls.
3. GIS awareness training to over 500 state staff.
4. Establishment of GIS video conferencing capabilities at the State Emergency Operations Center.
5. Creation of 180 GIS images in response to requests during the Y2K transition weekend.

Brief Summary of Partnership

A multi-agency GIS Unit was established for the Year 2000 Task Force on Emergency Preparedness. This unit was composed of staff from the State Emergency Management Office, the Department of Transportation, the Department of State, the Division of State Police, the Department of Health, the Office of Real Property Services, the State Education Department, the Thruway Authority, Department of Public Service, and the Department of Environmental Conservation.

Initially, an analysis of the data needed to properly respond to Y2K related problems was performed and, as a result, State agencies were

asked to either create or improve over 30 databases. Information was gathered on such areas as high risk occupancy facilities, State owned emergency generators, power utility companies, critical vendors, critical care facilities, hazardous waste facilities, State facilities, potential shelter sites (public schools, colleges, & universities), etc. In addition, digital orthophotos from the Digital Orthophoto Quarter Quad (DOQQ) Program were reprocessed to address file size and format issues, and to address variation and quality of images. For the first time, live data feeds were also developed with power utility companies, high-risk occupancy facilities (medical facilities, state facilities, etc.), road condition data and County Emergency Operation Centers. Finally, taking advantage of a new electronic messaging and mission tracking system developed by the State Emergency Management Office, all calls coming in to the State Emergency Operations Center were geo-referenced automatically by operators through a series of drop down menus.

The GIS Unit was organized to handle each of the areas of live data feeds as well as special requests sent in from the various functional units in the Task Force. In addition, a GIS Kiosk was set on the main Operations floor at the State Operations Center to respond to immediate questions by agency representatives. Individuals were also responsible for visiting each of the twenty plus functional groups to insure that they had adequate data or analysis to perform their duties.

Because most members of the Year 2000 Task Force on Emergency Preparedness had little idea of the capabilities of GIS, awareness sessions were incorporated into each of the training sessions given to participants. In addition, supplemental awareness training was added to each of the live exercises held at the State Emergency Management Office in preparation for the Y2K transition weekend. Finally, in order to ensure that the Task Force utilized GIS to its full advantage, GIS was made central to the workflow with all messages routed through the GIS Unit. This allowed the Unit to not only respond to special requests, but also suggest potential aids that could be provided to assist functional groups with their assignments.

GIS was decidedly a "critical component" of the Y2K Task Force. In addition, the 500 plus staff who participated on the Task Force obtained an increased recognition of the importance of GIS as an analytical tool.

The key policy implications resulting from the use of GIS for the Y2K Task Force include the following:

- The multi-agency approach team used by GIS Unit will be closely considered for use in future emergency management operations;
- Requirements will be mandated for State agencies to fully maintain GIS data used for emergency management; and
- There will be a requirement to make GIS more easily available and framework data layers better integrated.

Additional Information Available On-line

None

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