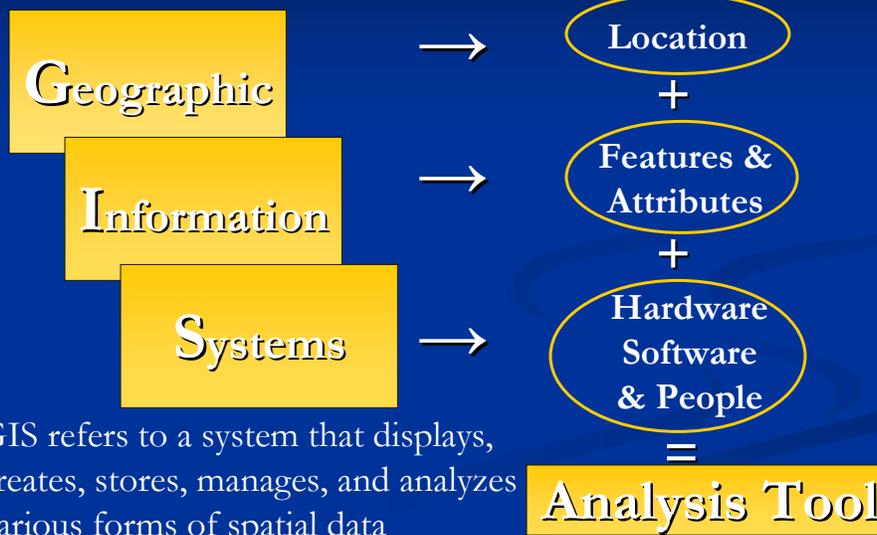# GIS Division

- **Background:**
    - Created in December 2006
    - Funded by the Water Department
- **Mission:**
    - Data Maintenance
    - Data Creation
    - Data Integration
    - Spatial Analysis Assistance
    - Information Support by Publishing Image Data

What is GIS

Geographic → Location

\+

Information → Features & Attributes

\+

Systems → Hardware Software & People

=

Analysis Tool

GIS refers to a system that displays, creates, stores, manages, and analyzes various forms of spatial data
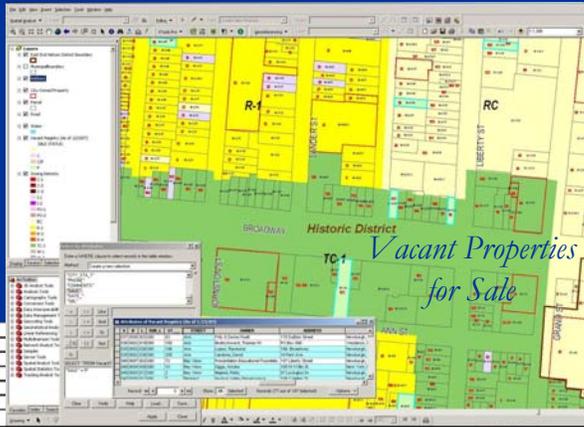
Why

- GIS allows for:
  - Visual Language: Maps tell stories
  - Automating activities involving geographic location
  - Better decision making and planning through querying, mapping, analyzing, & modeling with the whole picture
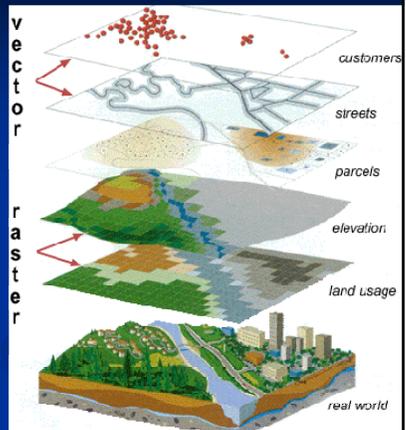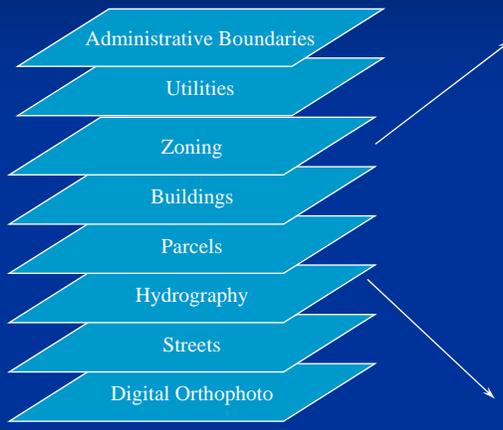
Paper

VS.

Vacant Properties for Sale

How

- Administrative Boundaries
- Utilities
- Zoning
- Buildings
- Parcels
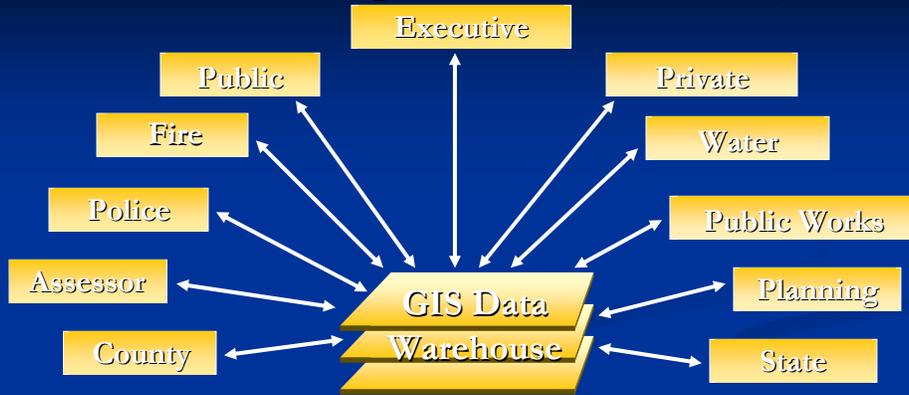- Hydrography
- Streets
- Digital Orthophoto

Want a successful City?

Connecting our Community

Key Benefits:
- Integrating data from different sources
- Redefining work flow among City departments
- Data sharing – collaborative efforts save money and effort

Integrating GIS for Infrastructure Management

Identify Resources & Work Order Requirements

Water Dept's automated GIS–SAP system gives users quick access to its asset. Users search for locations by information, such as equipment numbers, water main break history, addresses, parcel numbers, and GPS coordinates.

Track Projects & Money

Real-time Water Supply Distribution & Model

GPS Asset Inventory

- **Global Positioning System** takes GIS into the field opening up new opportunities for more up-to-date and accurate GIS data collection

  - **Asset Inventories -** Create and maintain an inventory of asset locations and attribute information

  - **Asset Maintenance -** Update asset location, condition, and schedule maintenance

  - **Inspections -** Maintain digital records and locations of field assets for legal code compliance and ticketing

  - **Incident Reporting -** Document the location and circumstances of incidents and events for further action or reporting
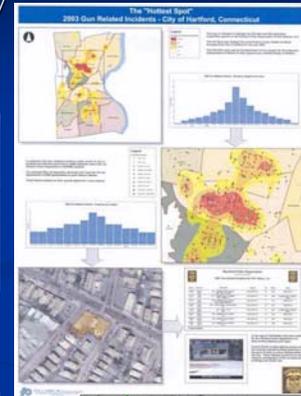
Other Applications
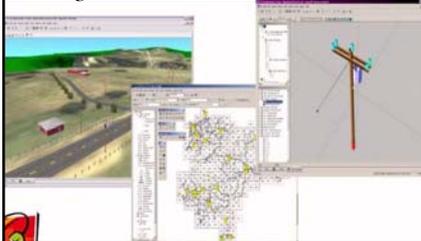
Property Assessment- Assessor

Crime Analysis - Police

Land Use Design / Site Selection – Planning

Utility Maintenance - DPW

Emergency Response - Fire

Buffer Analysis

Project & Status

Creation of a GIS Analyst Position	Completed
Equipment and Software Purchase	Completed
GIS Policy, Service Request System, Fee Schedule, & Steering Committee	Jan 2007 – March 2007
GIS Data Warehouse Development	On-going
GPS Utility Infrastructure Inventory	Jan 2007 – Sep 2007
Customized Maps & GIS Services	On-going
Intranet / Internet Mapping Application Development	Feb 2007 – April 2007
Sub-ft Resolution Orthoimagery	April 2007 – Aug 2007
GIS Needs Assessment & Implementation Plan (SARA Grant if Awarded)	June 2007 – Dec 2008

GIS Policy Guideline

- **GIS Steering Committee:** Charged with regular review of GIS policies and activities that encourage the appropriate utilization of GIS in an effective, efficient, and coordinated manner

- **Data Steward:** The GIS Analyst is responsible for the content, maintenance, publishing & distribution of GIS data

- **Data Distribution:** The City of Newburgh promotes the sharing of data and distributes GIS data originated by the City as a service to the public with a cost. A formal written request and the signing of the Data License Agreement are required

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GIS Service Request & Procedure

- All service requests shall be directed to the City agency or official. GIS Request Form and Fee Schedule will be available on the City's website and at the City Clerk's office
- A delivery time and cost estimate will be provided upon the submission of properly completed request form
- All payment must be made to City of Newburgh

GIS Fee Schedule

■ **Mapping:** A $40 per hour labor fee in 15 minute increments and a 15% administrative fee are applied to all non-governmental map requestors

■ **Printing:**

Map Size	Price (1st Copy)	Price (Additional Copies)
8.5x11	$5	$3
11x17	$10	$6
Customized size up to 36x40	$25	$15
Larger than 36x40	$30	$18

■ **Data:** $ 100 - Parcel, $200 – Aerial
■ **Subscription:** $ 100 per year
■ **Media:** CD/DVD - $5 each
■ **Shipping:** Varies