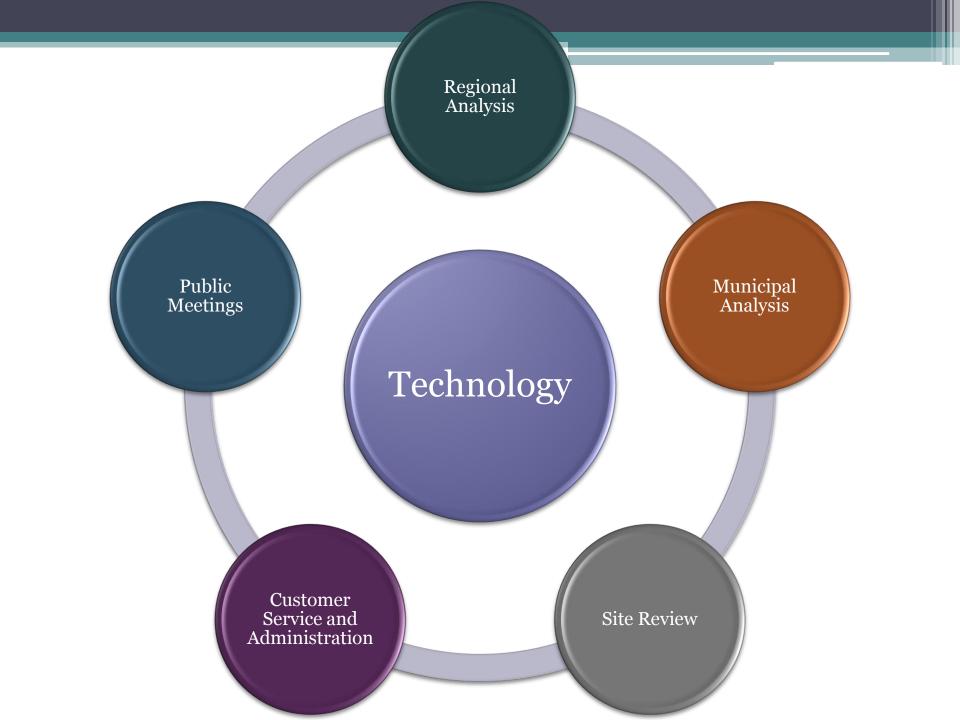
Technology in Planning and Environmental Analysis

Thursday January 22nd, 2015

Presentation to:

Kingston Conservation Advisory Council &

Kingston Planning Board



Technology for Municipalities

Municipal-Wide Plans Corridor or Area Planning

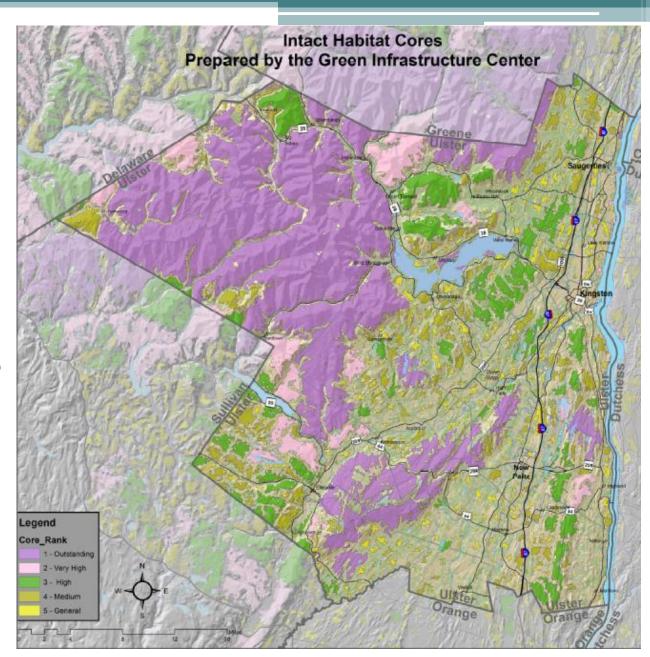
Site Planning

Technology for the Region

- Ulster County Green Infrastructure Habit Cores
 - Creating the Maps
 - Unfragmented Habitat Layer
 - Ranked Cores
 - Using the Maps
 - Linking to Regional/County Level
 - Linking to Town/Site Scale

- + Size and shape
- + Rare, threatened and endangered species
- + Water quality, aquatic biodiversity
- + Water abundance

Habitat CoreRanking for IntactLandscape



Catskill Mountains - Large, unbroken forests embedded with lakes, rEvery, Werbiesds and semal poots Hoodwater streams provide habital for rout and cold waterspecies - freservation of bindisentry and non species, including the tenter retriesnake. Maintaining drinking water quality **Bristol Beach** Foot leaved at Greek Legend Important Waterways, Propertial Acquesi povets his Elegane Create Watersheds and Aquifers Manage Power of Income. Sawyerkill, Plattekill, Esopus Creek, Beaver Kill, Kaaterskill - Stodivenity benefits of riperior and upland histirist A Potential Suspenses Helitan River Trail . Water quality Hood arenetion and aummenter recharge Freetal Super Recreation and ocerar qualifies Important Historyays Limestone and Shale Ridges Unique geology - Rare animals and plants Hudson River Corridor - The fratery "lanthcape that defined America" - Riverine and estuary habitate . Freshwater wettends and freshwater insentidal mudflists . Total area of the mouth of the Evapor

Town of Saugerties Open Space Plan

Vision Map

Planning Concepts

Bristol Beach Plan

Develop a Menter Plan to increase Access to Bristol Brack and Preserve Historic and Scological Resources

Hudson River Trail

Develop a continuous trail to provide access to and between public palls, neighborhoods and harries, and historic attractions

Esopus Creek Water Trail

Create a series of water access potrotic to provide access to the Stoppes Creek for Augusting between Glaverie falls well the

Mountain Cloves Scenic Byway Connection

Work with the towns of Huster and Catalob to severap a Saugerties connection to the Mountain Clines Scenic Byway

Core Farming Areas

Bakaven Valley-Saugerties Valley

- and the Saxton Flats
- frome sorts and areas of agricultural
- Economic, spanic and environmental
- benefits to the community
- Local fixed and agricult and products











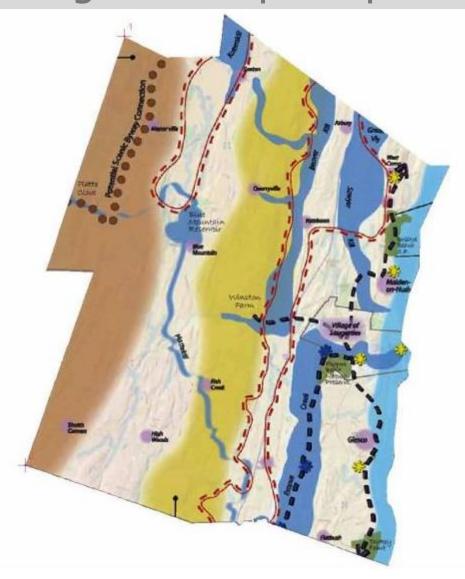
Hudison Trief access and recreation opportunities



Where the Elapur, Over Wart: the Husban Bluer



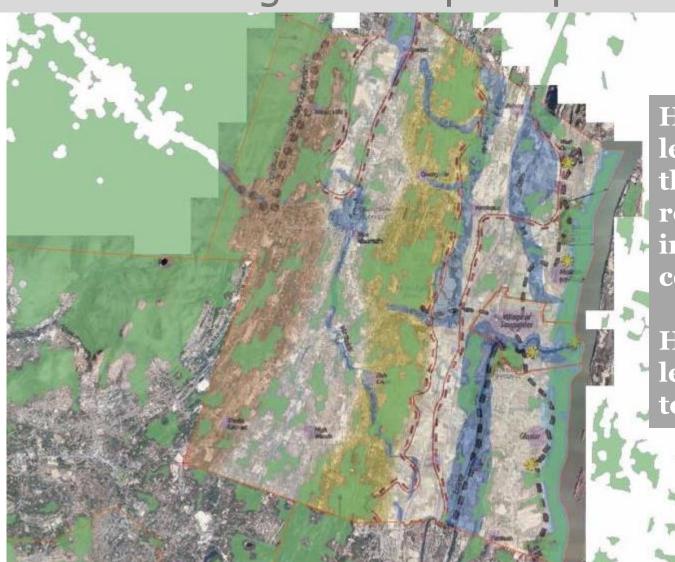
Town of Saugerties- Open Space Vision Plan



Town of Saugerties- Open Space Vision Plan

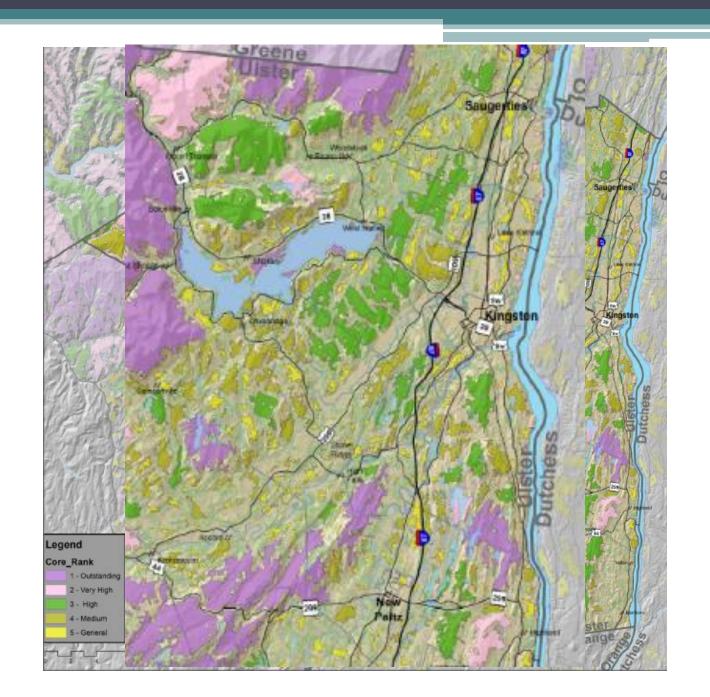


Town of Saugerties- Open Space Vision Plan



How can town level data inform the potential reconnection/ improvement of cores?

How can County level cores inform town level efforts?



Green Infrastructure Mapping in Ulster County is an opportunity to

- Link the County to the Region... and beyond
- Build on existing data and efforts at the municipal and area scale
- Inform and further efforts at the municipal and region scale



Technology for Municipalities

Municipal-Wide Plans Corridor or Area Planning

Site Planning

U.S. ROUTE 9W CORRIDOR ENHANCEMENT PLAN

TOWN OF ULSTER, NEW YORK











































PREPARED BY THE TOWN OF ULSTER COMPREHENSIVE PLAN IMPLEMENTATION COMMITTEE WITH PLANIT MAIN STREET, INC.
ADOPTED BY THE TOWN OF ULSTER TOWN BOARD ON APRIL 24, 2014



U.S. Route 9 W





Proposal:

To install curbing and sidewalks along entire length of the east side of U.S. Route 9W to facilitate a pedestrian connection on this side of the corridor.

Relocate the bulky telecommunications cables behind the buildings in the linear strip of green space, which exists between the buildings on Route 9W and the malls.

Proposal:

Create a design vocabulary for the U.S. Route 9W corridor, which includes street trees, period style lighting and the installation of curbing and sidewalks on east side of corridor.

Relocating telephone and cable lines behind buildings would substantially reduce the clutter of overhead utilities.

Problem:

The U.S. Route 9W corridor is not pedestrian friendly and is visually unappealing. There are few sidewalks along the eastern side of the corridor combination of overhead utilities pole signs and billboards along the corridor create visual clutter that is unsightly. There is a need to soften the appearance of this important gateway into the Town of Ulster.

Problem:

Having almost all the streetlights on one side of the street creates a lopsided appearance of the corridor. This is also not an effective means of evenly distributing light to both sides of the street.

Proposal.

Install streetlights on both sides of the street and stagger lighting poles to form an even distribution of lighting along the U.S. Route 9W corridor.







U.S. Route 9 W







Above (Left to Right): View of existing conditions on U.S. Route 9W corridor looking north from Kings Mall on east side of U.S. Route 9W; same view showing new period streetlights with banners, a new sidewalk, relocation of telephone and cable lines (see Appendix A) replacement of Verizon pole sign with monument sign and removal of billboard and pole signs on left side of photo; and same view with new period lighting with banner with the Verizon pole sign, but billboard on left side of photo removed. These illustrations show how streetlights, sidewalks and sign regulation affect the appearance of the corridor.



TABLE 1: DIMENSIONAL STANDARDS, GM SUBDISTRICT

LOT STANDARDS

		Min.	MAX
	LOT AREA	NA.	NA.
	Lot Work	NA.	NA.
	LOT DEPTH	75'	NA.
b.	LOT COVERAGE	NA.	85%
c.	BUILDING COVERAGE	NA.	65 % ^(m)
d.	LANDSCAPED AREA	10%	NA.
	MINIBUM FRONTAGE OCCUPANOV ^{III}	Buildings that Front on 9W: with a shared sidewait 90% detached buildings: 75% Buildings that Do Not Front on 9W: 70%	

None

- (a) The minimum frontage occupancy requirement may be reduced by the Planning Board, (a) to the entert necessary to allow light and air into an edjacent building that has able windows, or (b) if the approant provides a suitably surfaced and lighted pediatrian passageway between Plause DW and parking areas, public open spaces, outdoor dining area, or other streets, located behind the building.
- if underground parking is provided, then the maximum building coverage may be increased from 65% to 85%. Maximum lot coverage shall remain 65%.

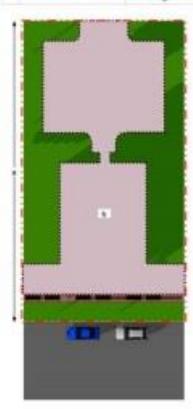


Figure 2: Minimum Lot Depth and Maximum Lot Coverage

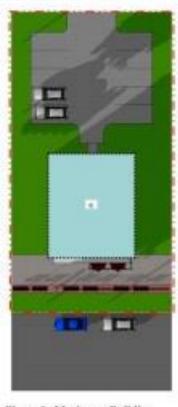


Figure 3: Maximum Building Coverage

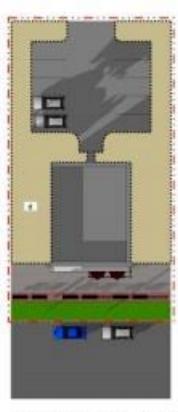
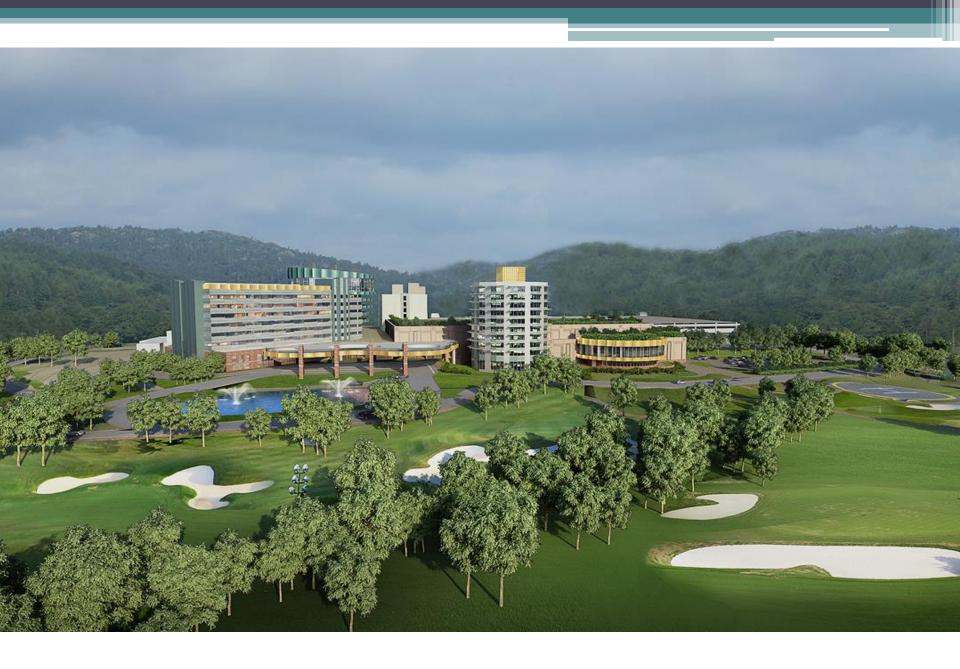


Figure 4: Minimum Landscaped Area

Technology for Municipalities

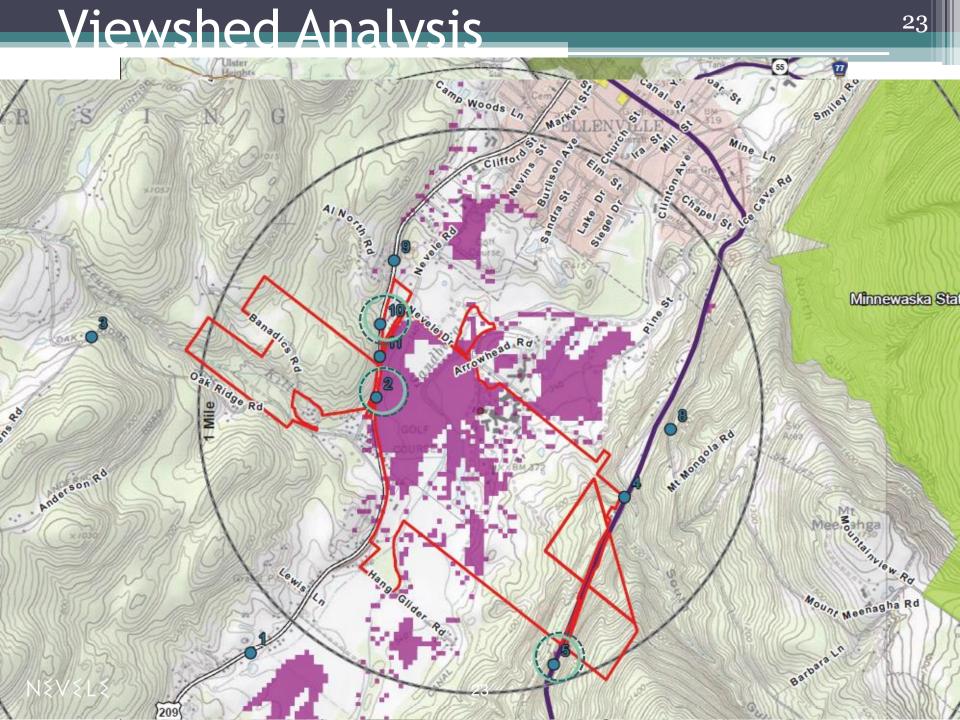
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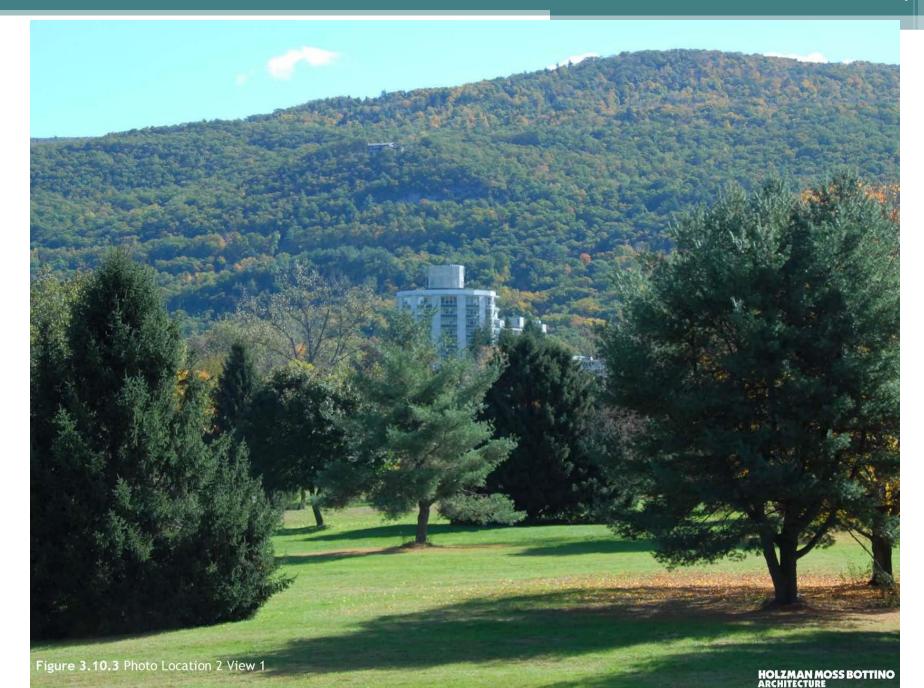
Site Planning







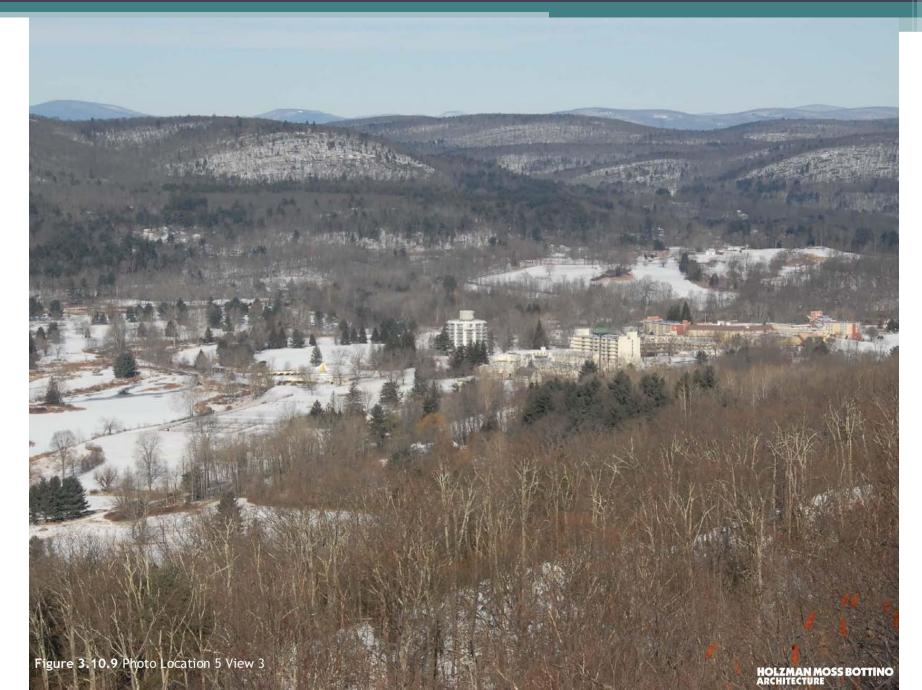






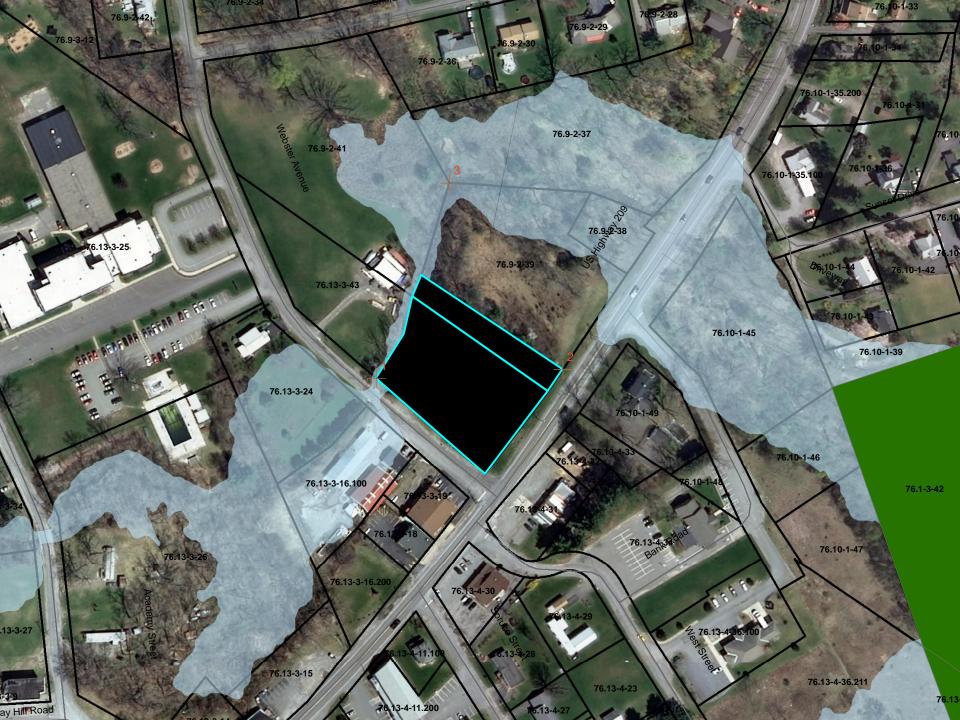


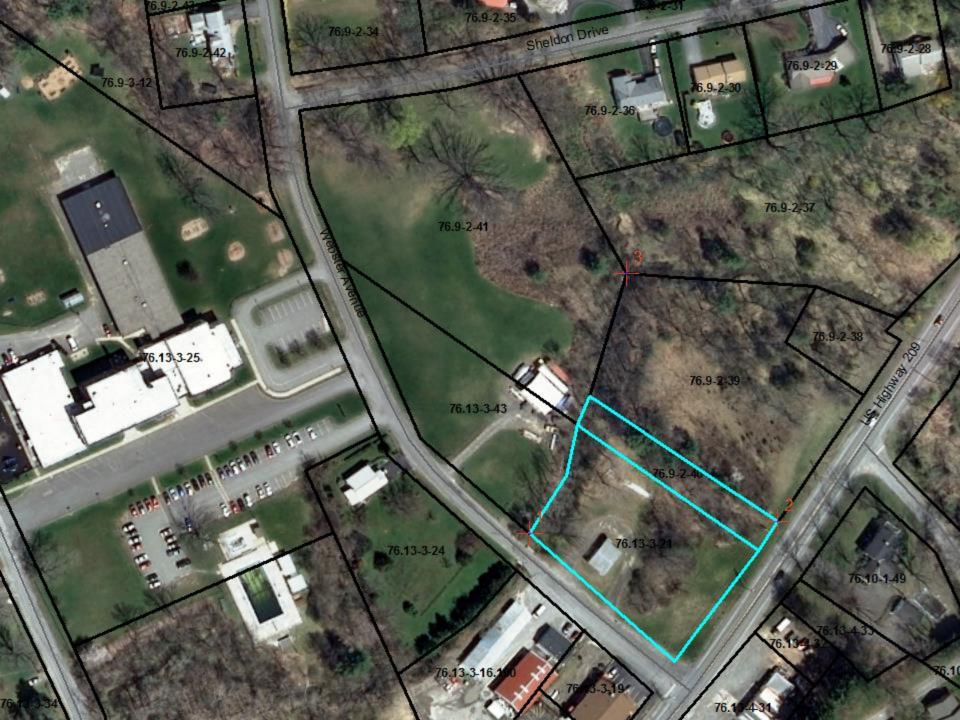


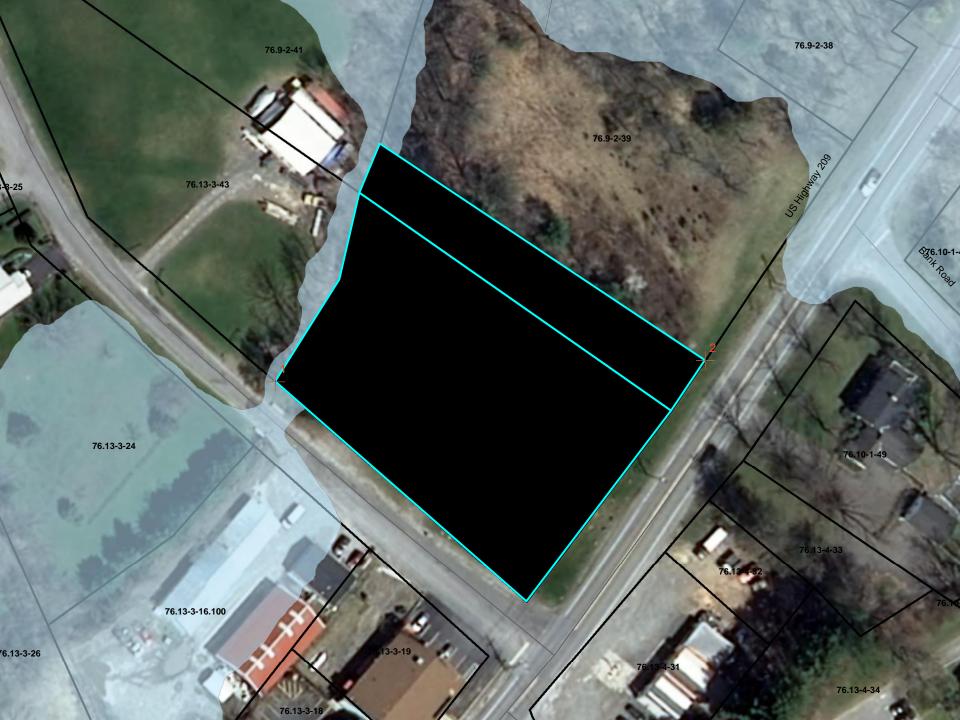






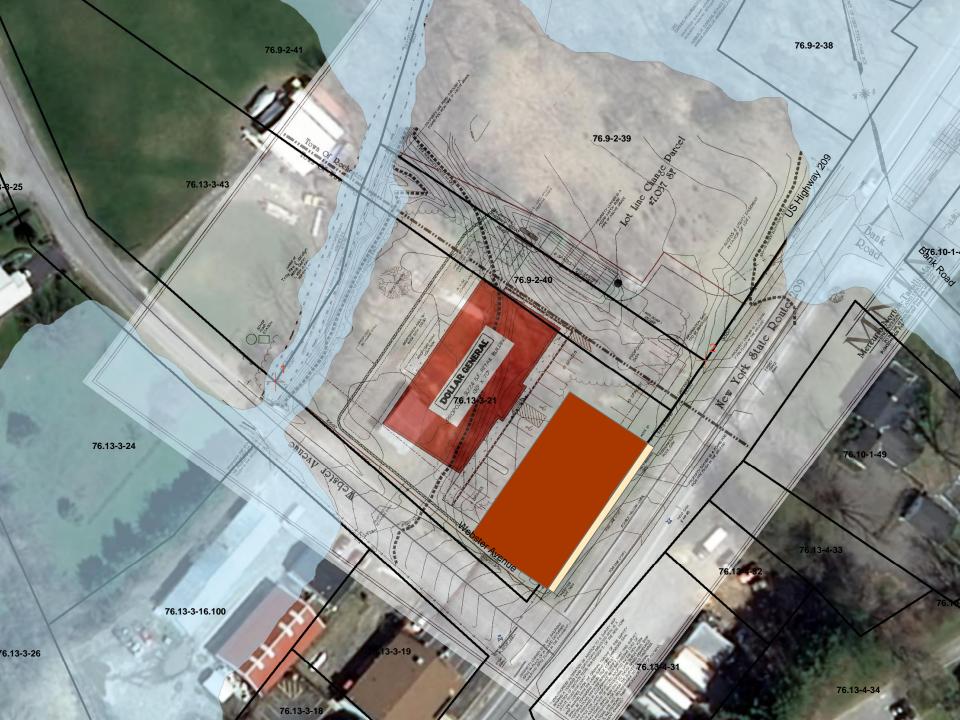


















Implementing GIS Mapping

- Software
 - ArcGIS for Home Use (\$100/Year)
 - ArcExplorer
 - Google Earth Free
 - Shp2kml transforms GIS layers to Google Earth
 - Quantum GIS (QGIS) Free
- Data
 - Ulster County http://ulstercountyny.gov/ucis/gis-data
 - Google
- Training Opportunities
 - See Handout

Ulster County Parcel Viewer

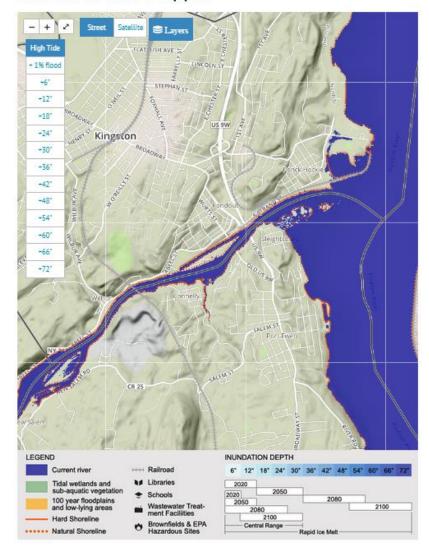
- Feature Overview
 - Basemaps and Layers
 - Measurements
 - PDF Creation
 - Sharing
 - Parcel Search and Identify
 - Buffer and Neighbor Identification

Other online GIS mapping resources

Scenic Hudson

www.scenichudson.org/slr/mapper

Sea Level Rise Mapper



Other online GIS mapping resources

- Scenic Hudson
 - www.scenichudson.org/slr/mapper
- Bing Maps
 - www.bing.com/maps/
- Google Maps
 - www.google.com/maps/

Projection

Enhance Your Meeting

Analysis

Feedback







Tools for Board Members

- Data Sharing
 - Cloud Storage
 - Cloud Collaboration
- Training
 - Planning
 - Environmental Science



http://ulstercountyny.gov/technology-planning-and-environmental-analysis-resource-page