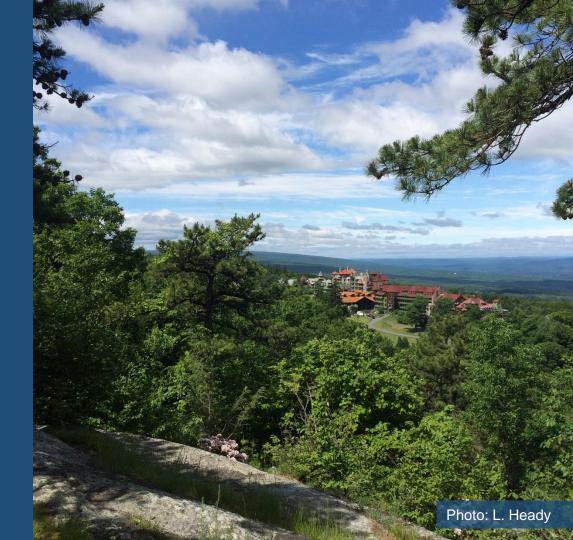


Why
<u>Nature Across</u>
<u>Boundaries</u>?



















HUDSON RIVER ESTUARY

WILDLIFE AND HABITAT CONSERVATION FRAMEWORK







An Approach for Conserving Biodiversity in the Hudson River Estuary Corridor

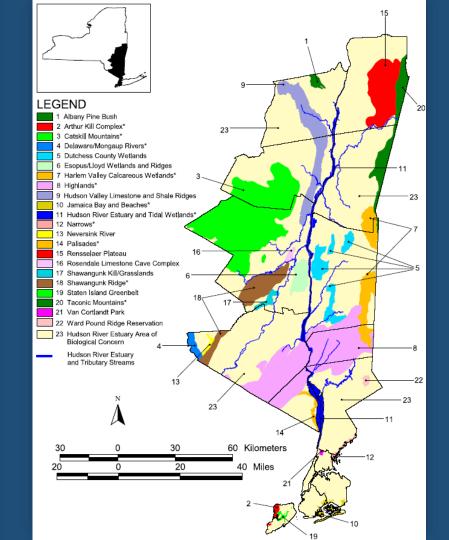




New York State Department of Environmental Conservation

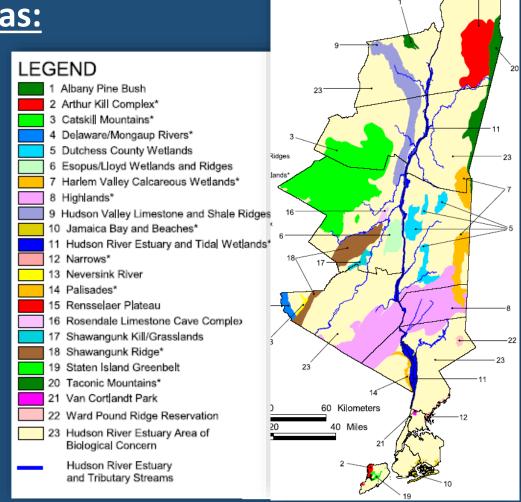
Governor David A. Paterson

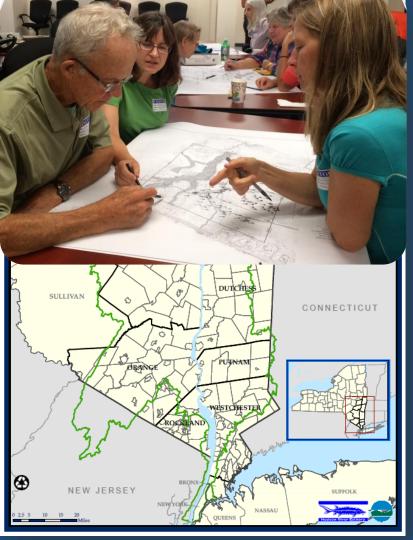
Commissioner Pete Grannis



Significant Biodiversity Areas:

- high concentrations of biodiversity
- unusual ecological features
- "...tend to contain uncommon and ancient geologic features, large wetland complexes, unfragmented forests, or sharp changes in elevation."





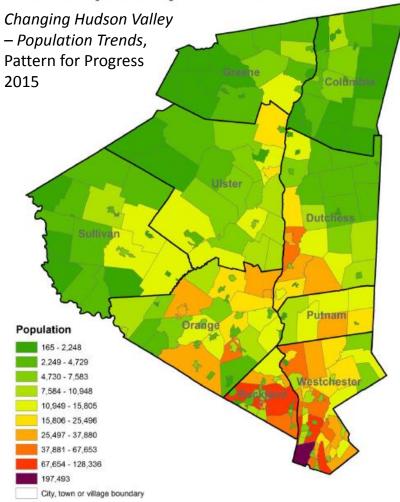
The Decision-Making Landscape

- 260 municipalities
 - elected officials, planning boards, conservation advisory councils

Photo by Laura Heady



Municipal Population 2013







The Decision-Making Landscape

- 260 municipalities
 - elected officials, planning boards, conservation advisory councils

80% private ownership





NEW YORK STATE WILDLIFE ACTION PLAN

September 201

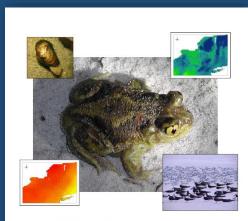


www.dec.nv.gov

Maintaining or restoring connectivity is important for *Species of Greatest*Conservation Need in:

- forests
- streams and rivers
- wetlands
- unique habitats

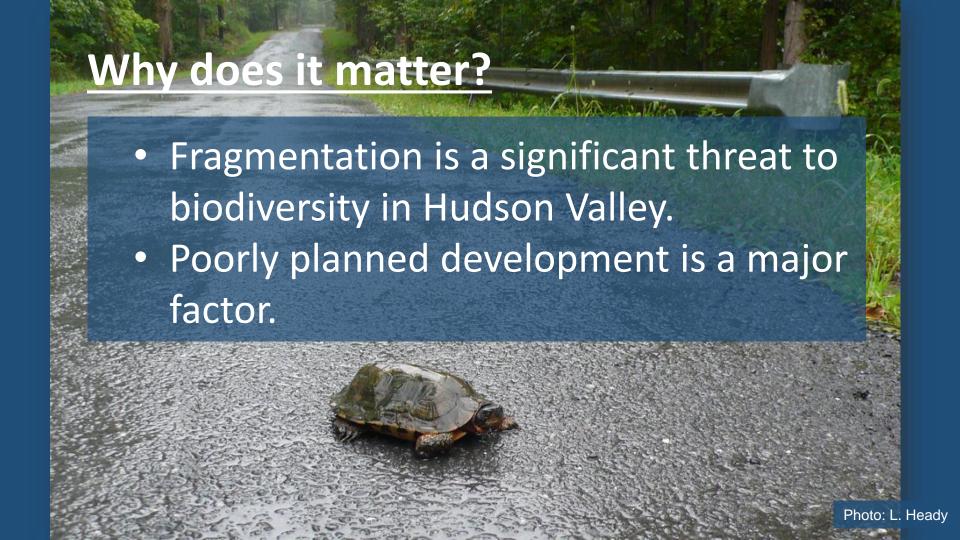
"aquatic and terrestrial habitat connectivity must be maintained and restored"



Vulnerability of At-risk Species to Climate Change in New York

Matthew D. Schlesinger, Jeffrey D. Corser, Kelly A. Perkins, and Erin L. White





"... [A] a new paradigm is needed – one that advances the proposition that instead of developing land with the naïve expectation that ecosystems will magically rearrange themselves around a new development (i.e., the old thinking), a community should first understand its ecosystems and then place development where it will minimize ecological impact. By doing so, we will bring biodiversity conservation fully into the smart-growth equation, creating quality communities that sustain both humans and the ecosystems on which all life ultimately depends."

Daly and Klemens, "Nature in Fragments"



"To truly improve quality of life, the planning codes must define open space with the same degree of precision and concern that they now apply to the design of parking lots."

Duany et al., "Suburban Nation"

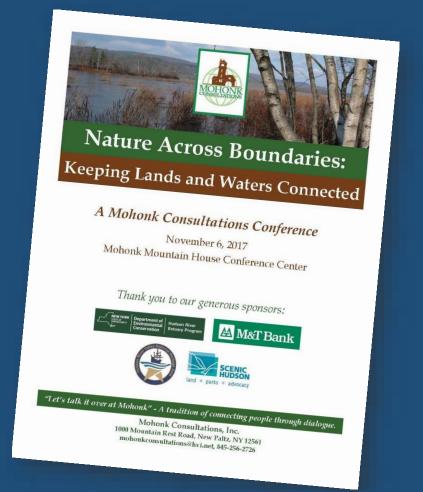


Why does it matter?

- Fragmentation is a significant threat to biodiversity in Hudson Valley.
- Poorly planned development is major factor.
- Connectivity contributes to climate change adaptation and resiliency.



- conservation science
- land protection
- land-use planning
- local engagement
- transportation mitigation
- policy advocacy



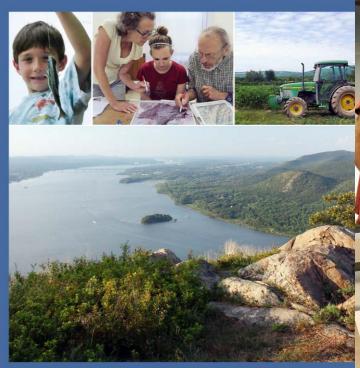






Creating a Natural Resources Inventor

A Guide for Communities in the Hudson River Estuary Watershed





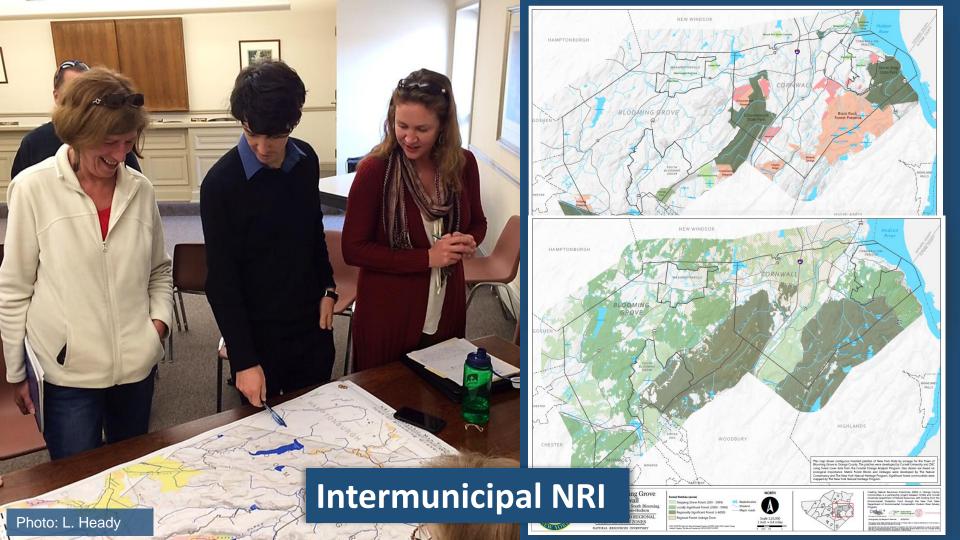
"...a community should first understand its ecosystems and then place development where it will minimize ecological impact."

Cornell University



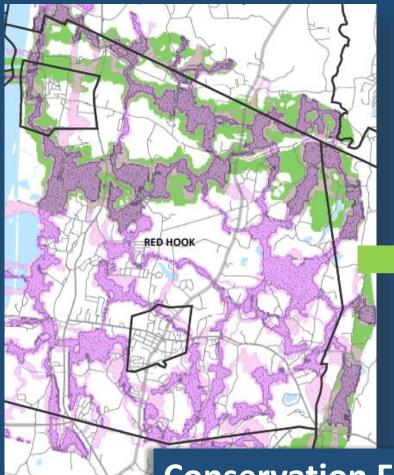
Natural Resource-Based Planning

Daly and Klemens, "Nature in Fragments"











Community Preservation

Planuppate

Town of Red Hook Villages of Red Hook & Tivoli

Red Hook Town Board | Red Hook, NY Adopted June 9, 2016

Points accrued for parcels identified as significant for biodiversity attributes

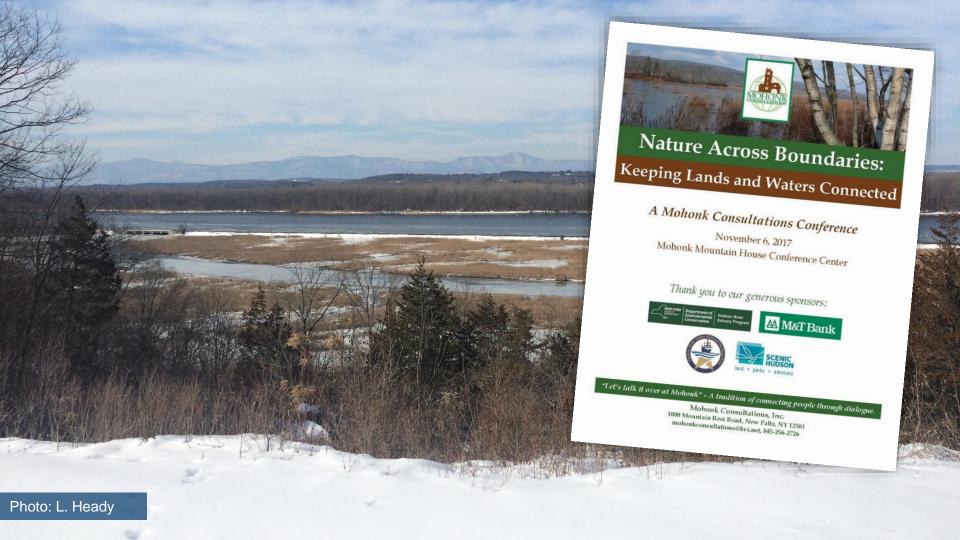
These parcals include those that have been identified as significant in it-frietegriph-based Forest Connectivity Modelling at Regional and Local Scales in the Hudson River Estuary Watershed's because they provide landscape connections within a watershed's bigining city forests, streams, and westlands that create pathways for species to move, as outlined below. These attributes result in a total of 1,108 parcals containing 20,344.2 acres of land.

Parcel Points Assigned Based Upon the Following Attributes:

- Properties with Large Forest Patches (>200 acres)
- Properties with Areas of Known Importance for Rare Animals
- Properties with High Priority Habitat Integrity Linkages
- Properties with Low Priority
 Habitat Integrity Linkages

For a complete breakdown of each parcel, including all additional information used in the ranking, see the updated Appendix A to the 2016 CPP

Conservation Financing for Connectivity



For more information:

Laura Heady

Conservation & Land Use Coordinator

NYSDEC Hudson River Estuary Program and Cornell University

laura.heady@dec.ny.gov 845-256-3061





