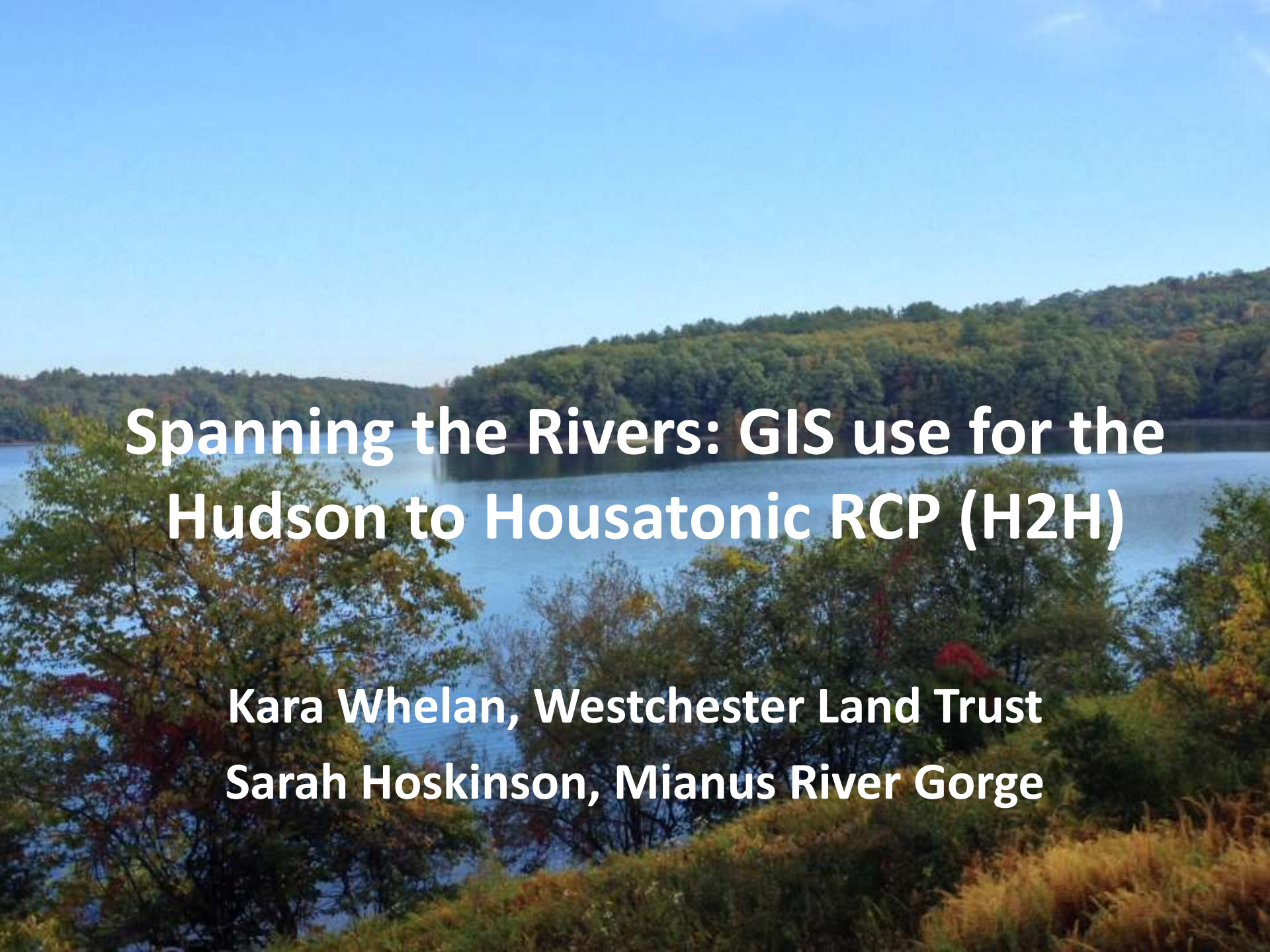
Using GIS for Reaching and Engaging Landowners

2015 RCP Network Gathering

Session 3B



Spanning the Rivers: GIS use for the Hudson to Housatonic RCP (H2H)

Kara Whelan, Westchester Land Trust
Sarah Hoskinson, Mianus River Gorge


H2H is funded in part by the US Forest Service Northeastern Area State and Private Forestry.
Maine
Vermont
New Hampshire
New York
Massachusetts
Connecticut
Rhode Island
Ohio
Pennsylvania
New York City
New Jersey


Massachusetts
New York
Dutchess Co.
Housatonic River
Connecticut
Hudson River
Putnam Co.
Pennsylvania
Fairfield Co.
Westchester Co.
New Jersey
New York


Massachusetts
New York
Dutchess Co.
Housatonic River
Connecticut
Hudson River
Putnam Co.
Housatonic Valley Assoc.
Highstead & Fairfield Co. RCP
Pennsylvania
Westchester Co.
Fairfield Co.
Watershed Ag. Council
Westchester Land Trust
Mianus River Gorge
New Jersey
New York

Step 1: Where do we have the capacity to work?

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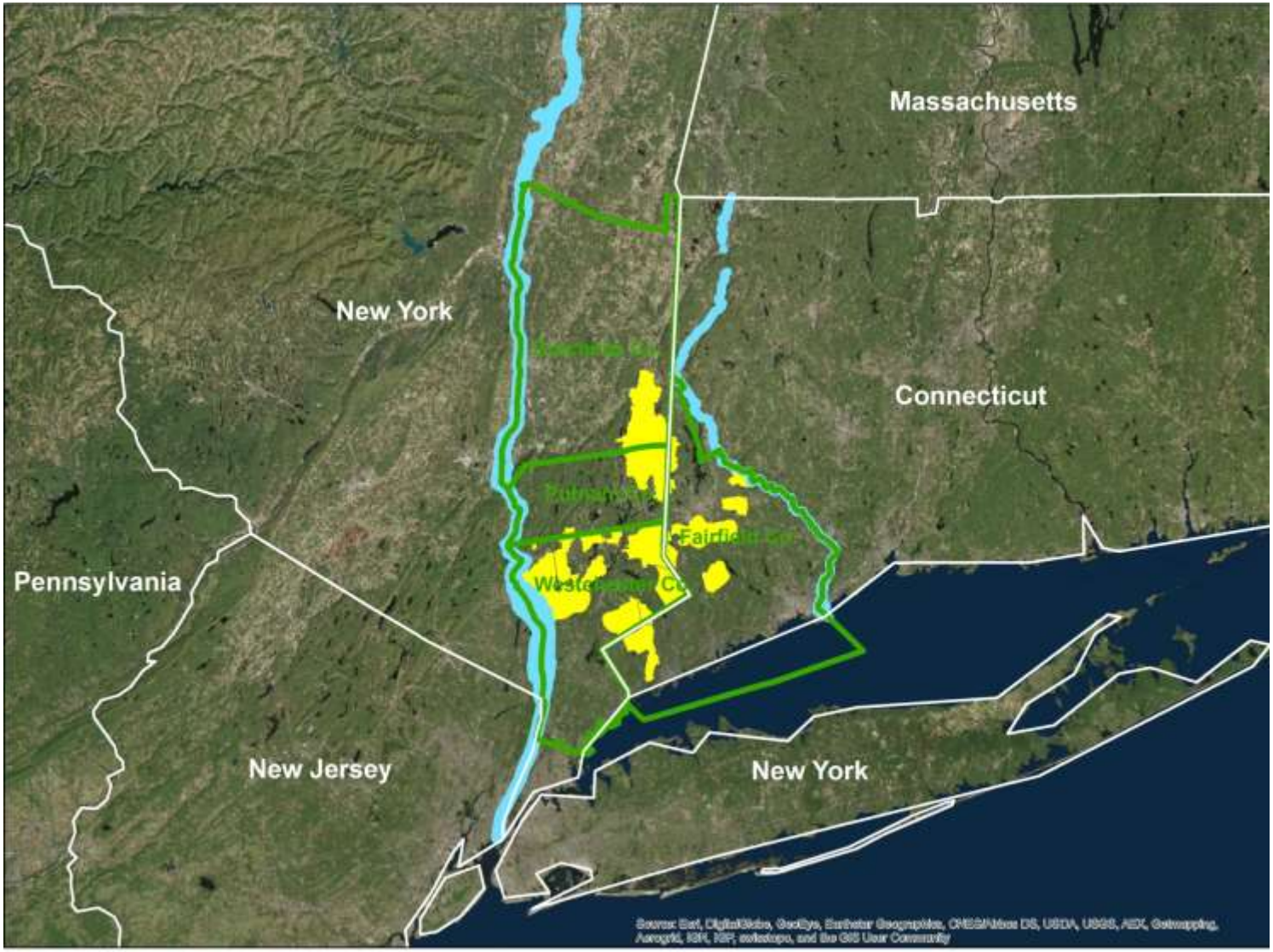

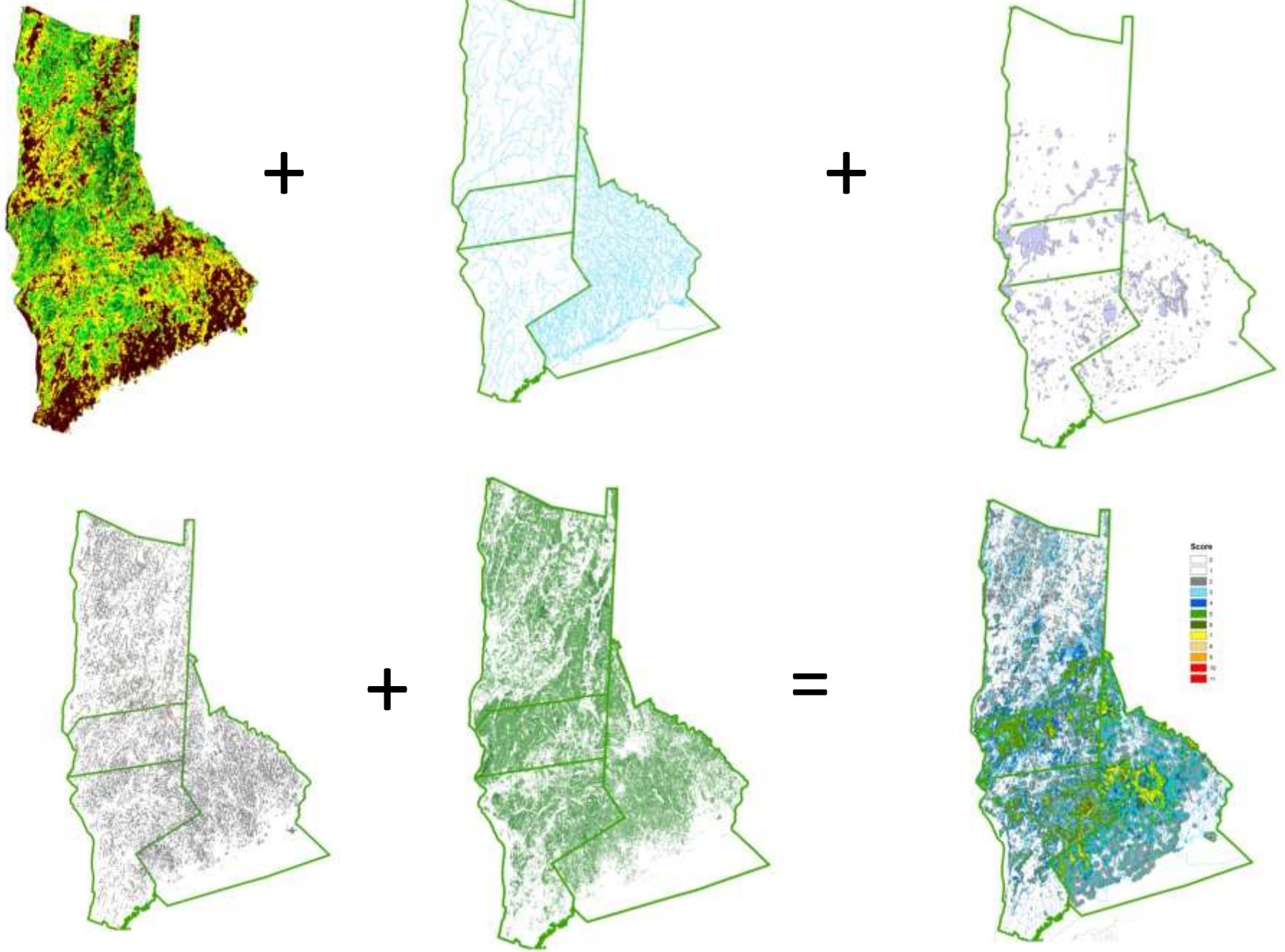
Score

Step 2: What factors to include?

The H2H Core Team was interested in considering:

- Water resources
- Large forest blocks
- Proximity to protected areas
- Rare species/ rare geological features
- Parcel size
- Relatively high site resilience to climate change (Anderson et al. 2012)

Anderson, M.G., M. Clark, and A. Olivero Sheldon. 2012. Resilient Sites for Terrestrial Conservation in the Northeast and Mid-Atlantic Region. The Nature Conservancy, Eastern Conservation Science.

Step 3: Should any factors be adapted to the needs of the RCP project area?

Core Team was interested in:

Water resources

What was ultimately included:

1) Aquifers & wells (Source: State clearinghouse)
2) Public drinking water supply reservoir watersheds (Source: State)
3) Tributaries & surface water with buffers (State)
4) Hydric soils (Source: USDA SSURGO)

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Rare species/ rare geological features	Not included

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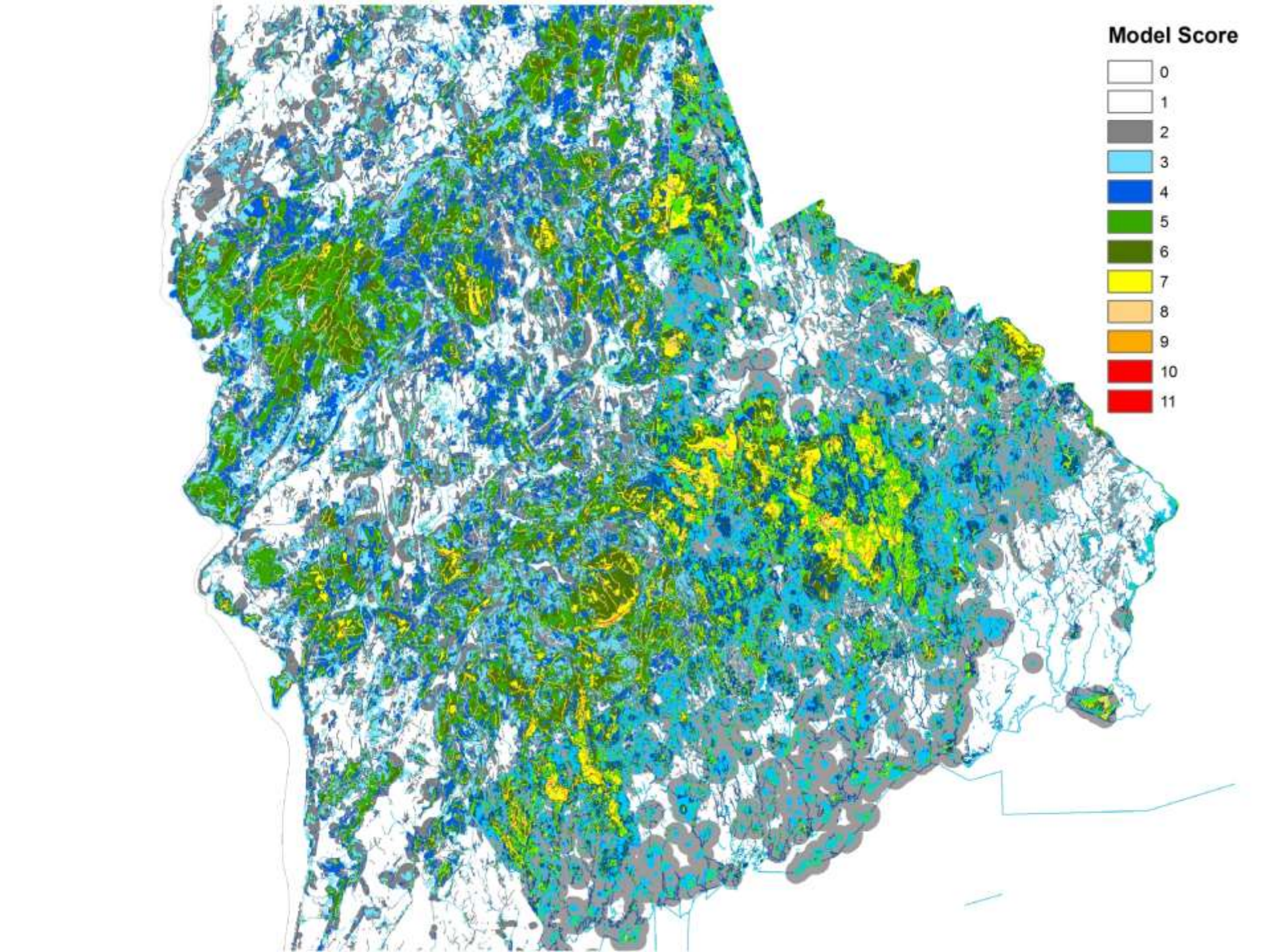
Rare species/ rare geological features	Not included
Parcel size	A consideration, but not included in model

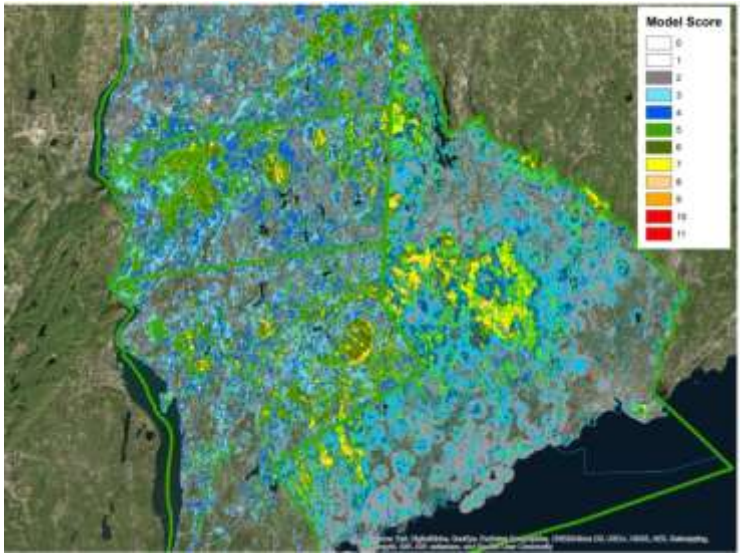
Step 4: How important is each factor to the RCP's goals?

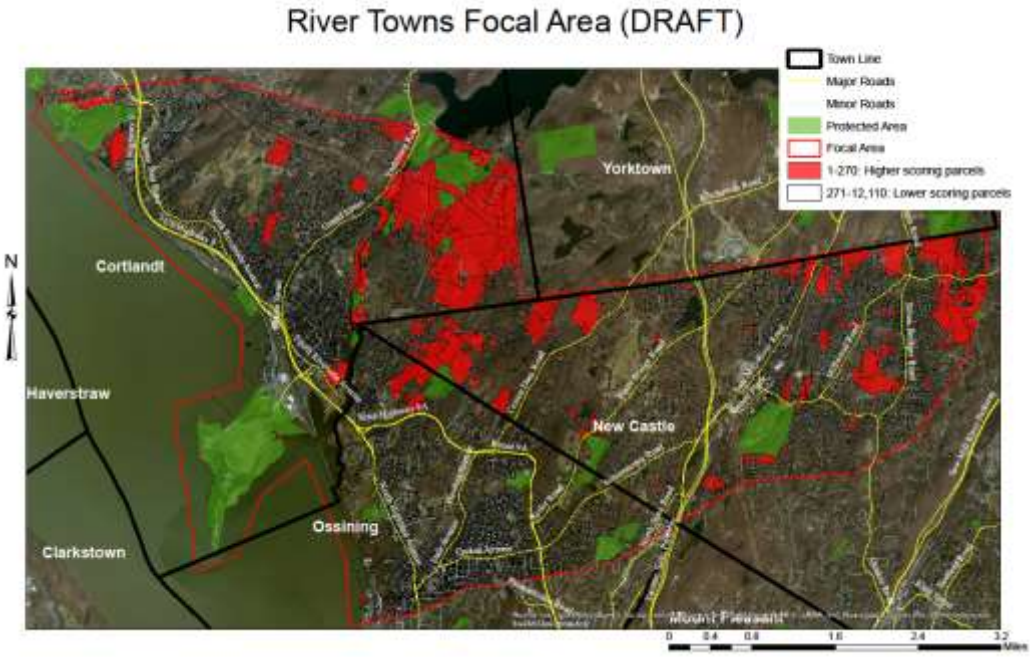
Layers	Scores
Aquifers & wells	1
Public drinking water supply reservoir watersheds	1
Tributaries & surface water	2
Hydric soils	1
Relative climate resiliency	
Far above average	3
Above average	2
>50acres forest with low P:A ratio	1
Proximity to protected area	
0-500ft	2
500ft-0.5miles	1

Total Score 0-11


Model Score
0
1
2
3
4
5
6
7
8
9
10
11

Step 5: How to use the co-occurrence model approach for on-the-ground work?





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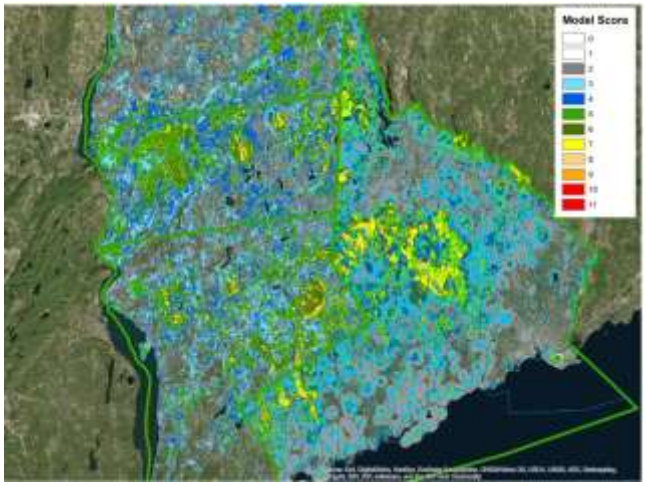
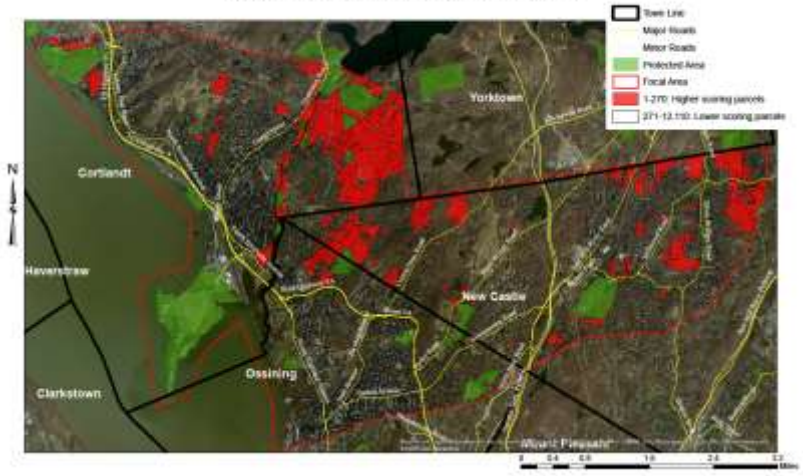
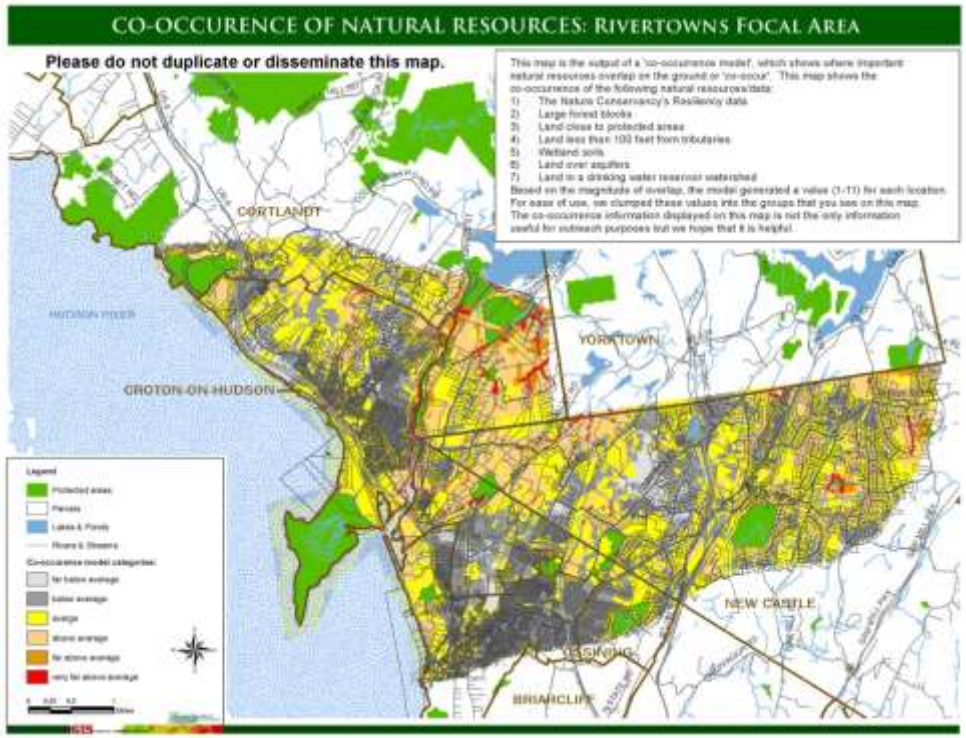


River Towns Focal Area (DRAFT)





Step 5: How to use the co-occurrence model approach for on-the-ground work?

How did H2H use the co-occurrence model to identify and engage landowners?