



Housekeeping

- All attendees are muted
- Can minimize speaker video, or click & drag if it blocks the slides
- Click on Q&A to submit a question
- Q&A at end but don't wait to type your question!
- Technical issues? Submit your question through the Q&A and host will respond in writing
- Scheduled until 1:00pm
- Webinar is being recorded. A link and slides will be available afterwards on ecga.org/CoastalResilience.





About Us

- Serve the 34 cities and towns of Essex County
- In our almost 60 year history we've protected nearly 18,000 acres
- Protect land for habitat, agriculture, and scenic value



Project Goals

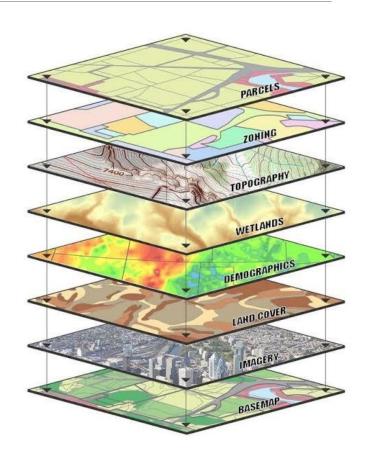
- Identify most important parcels for protection of critical resources
- New focus areas: climate & drinking water
- Integrate newly available data
- Relevant to municipalities & partners





How does a prioritization work?

- What parcels are we interested in?
- What resources do we want to protect?
- What data is available?
- How do we combine the data?





Process

- Staff committee
- Develop methods



- Advisory panel
- CZM Coastal Resiliency Grant

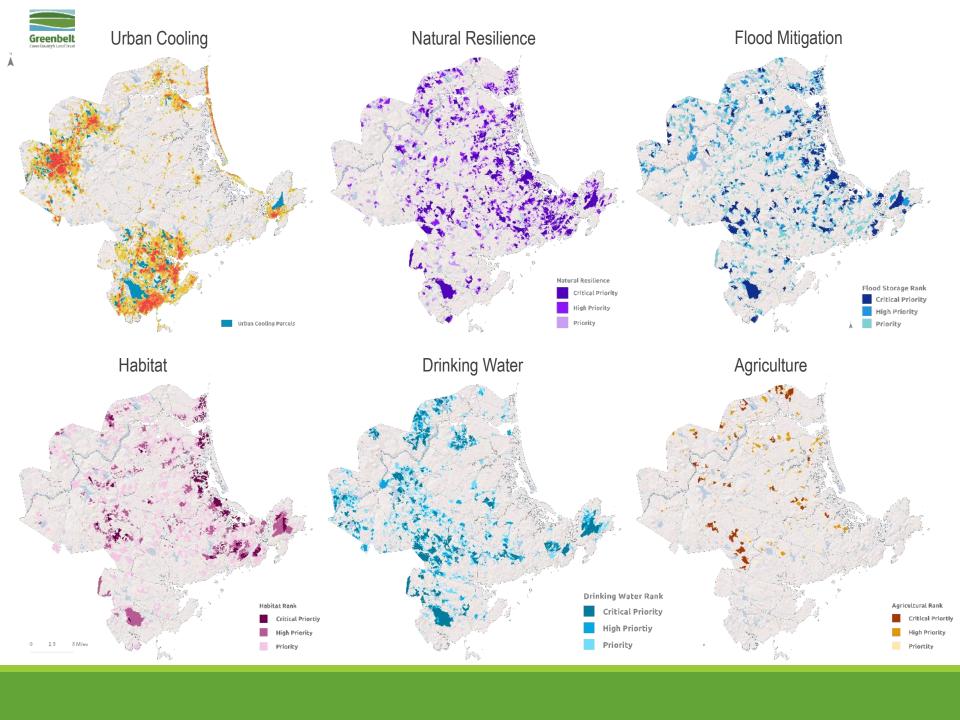
Advisory Panel:

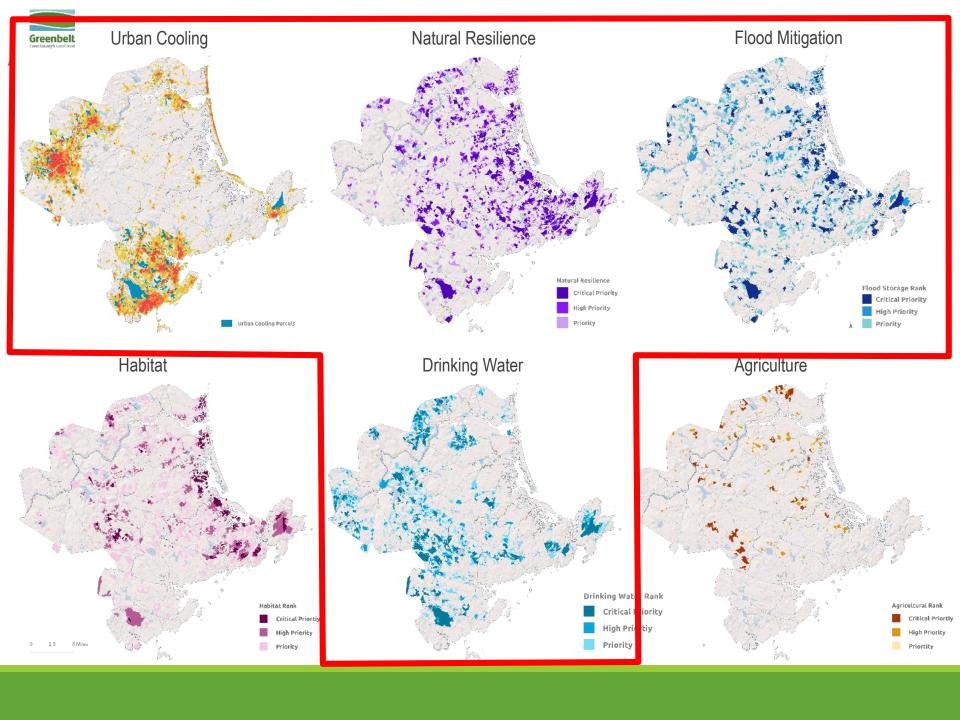
- Jessica Deitrich, The Nature Conservancy
- Andy Finton, The Nature Conservancy
- Tim Simmons, Restoration Ecologist, Retired
- Dr. Marcos Luna, Salem State University
- Dr. Stephen Young, Salem State University
- Dr. Barbara Parmenter, Tufts, Retired
- Wayne Castonguay, Ipswich River Watershed
- Julie Wood, Charles River Watershed Assoc.
- Noah Kellerman, Alprilla Farm
- Jae Silverman, Land for Good
- Nathan L'Etoile, American Farmland Trust









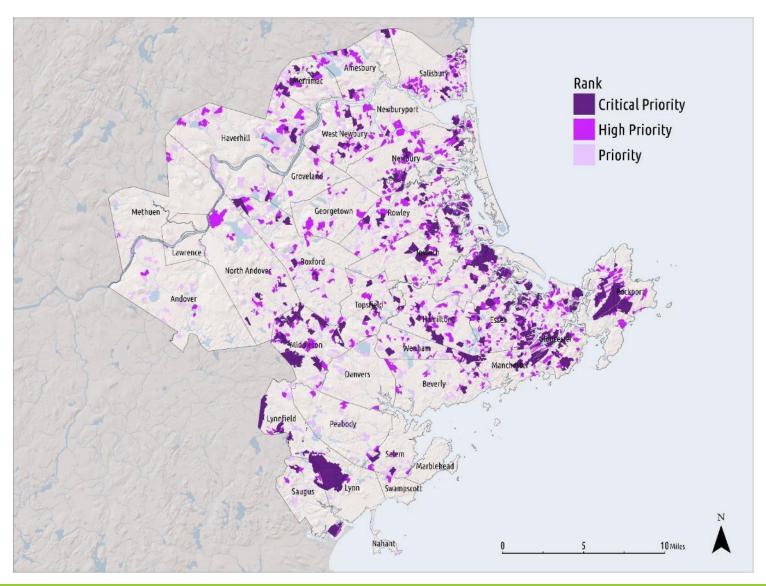


Analysis Data Inputs Natural Resilience

Agriculture	Natural Resilience	Habitat
 Actively farmed land Chapter 61 status NRCS Farm Soils Roads Structures and buildings 	 The Nature Conservancy's Natural Resilience Data The Nature Conservancy's Climate Corridors BioMap2 Protected Open Space 	 The Nature Conservancy's Natural Resilience Data Conservation Assessment & Prioritization (UMass) Priority Habitats of Rare Species DFW Coldwater Fisheries
Drinking Water	Flood Mitigation	Urban Cooling
 Wellhead Protection Areas Surface Water Supply Protection Areas Public water supplies Drinking water intakes Watershed boundaries 	 FEMA and Hurricane Surge Inundation Risk Zones Soil drainage classes Forest Cores 2016 Land Cover / Land Use Wetland resilience 	 Landsat 8 Land Surface Temperature 2016 Land Cover / Land Use Environmental Justice Populations



Natural Resiliency Results













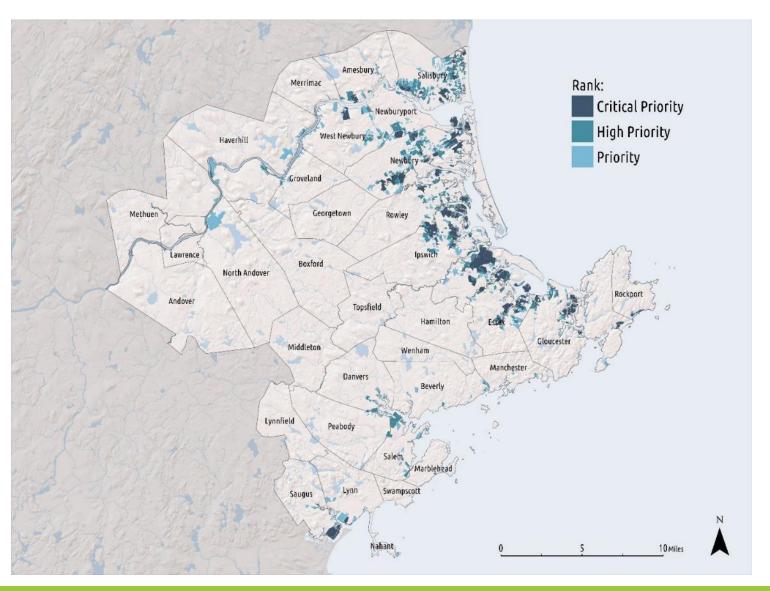






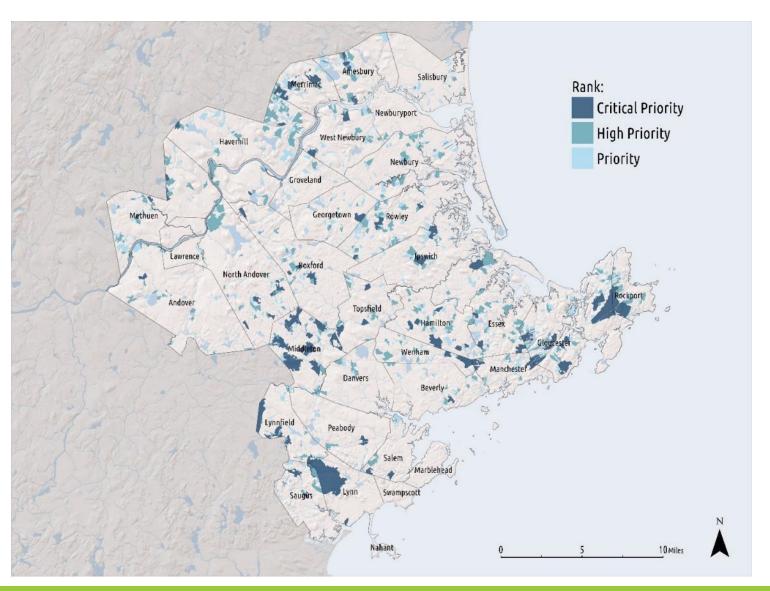


Coastal Flooding Results





Inland Flooding Results





Data and Methods: Inland Flood Mitigation



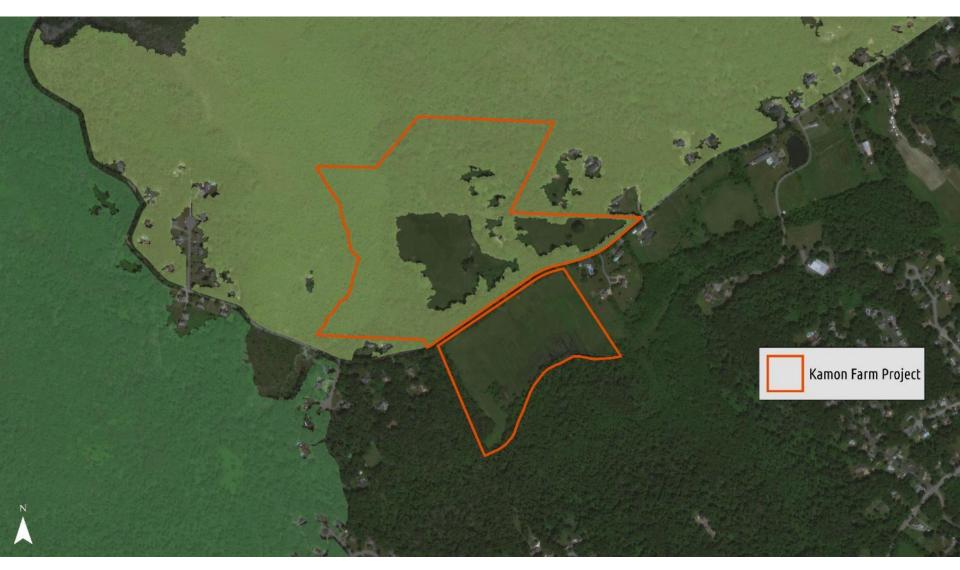


Data and Methods: Inland Flood Mitigation



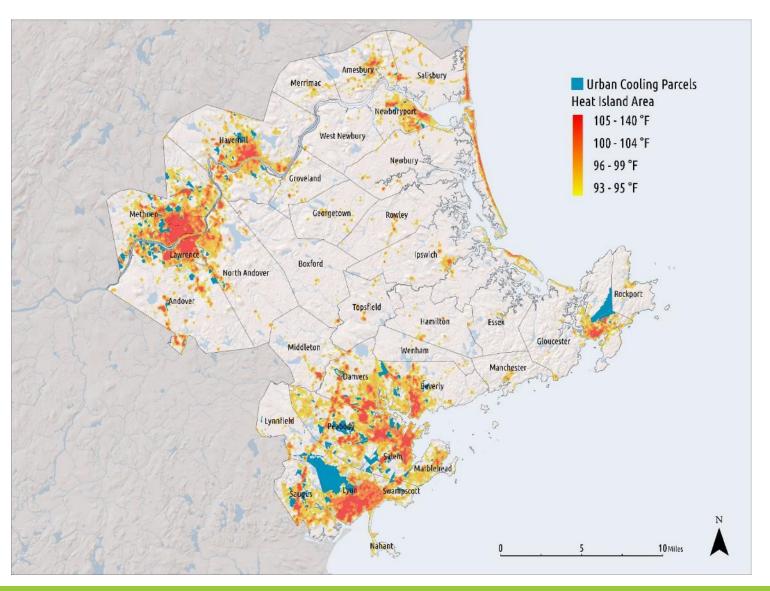


Data and Methods: Inland Flood Mitigation



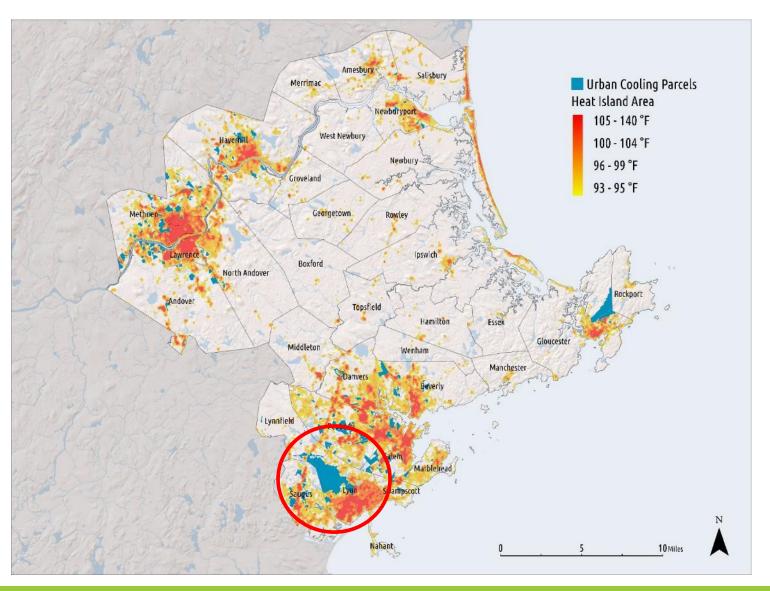


Urban Cooling Results





Urban Cooling Results



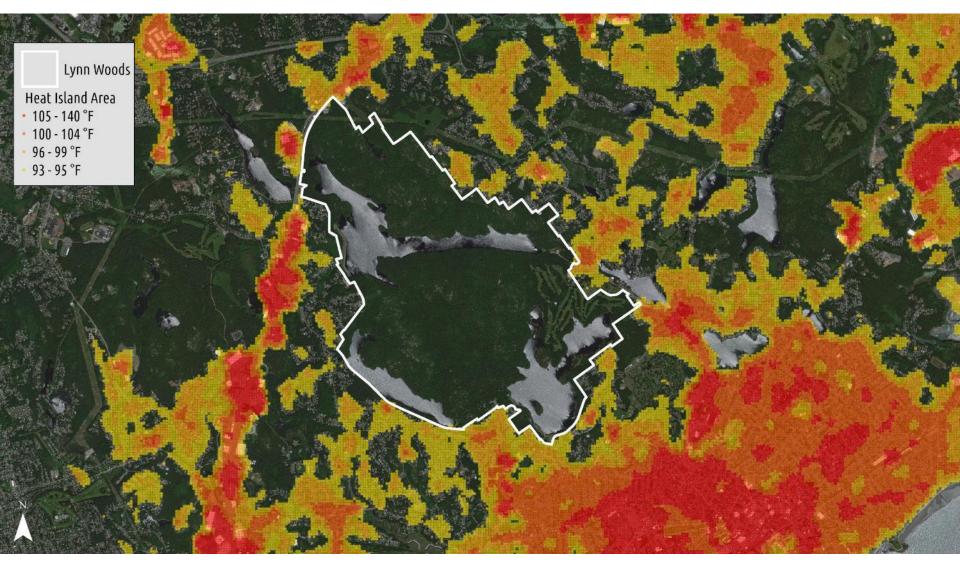


Data and Methods: Urban Cooling





Data and Methods: Urban Cooling



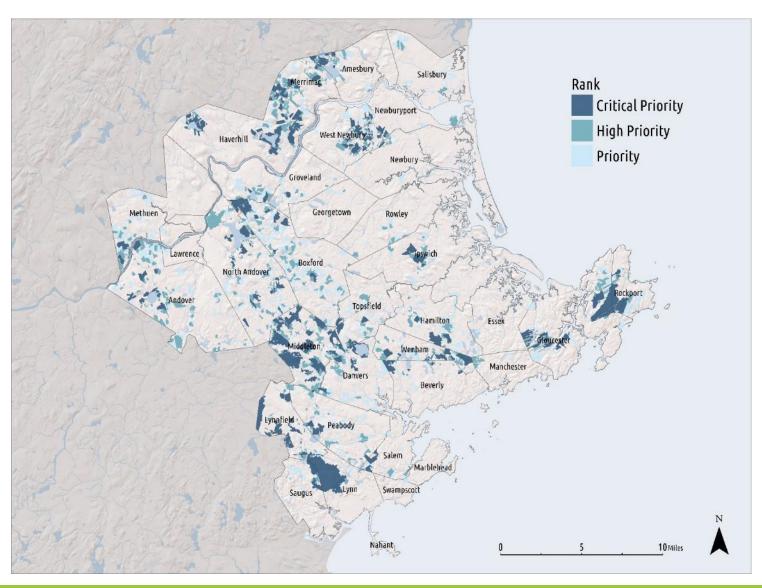


Data and Methods: Urban Cooling

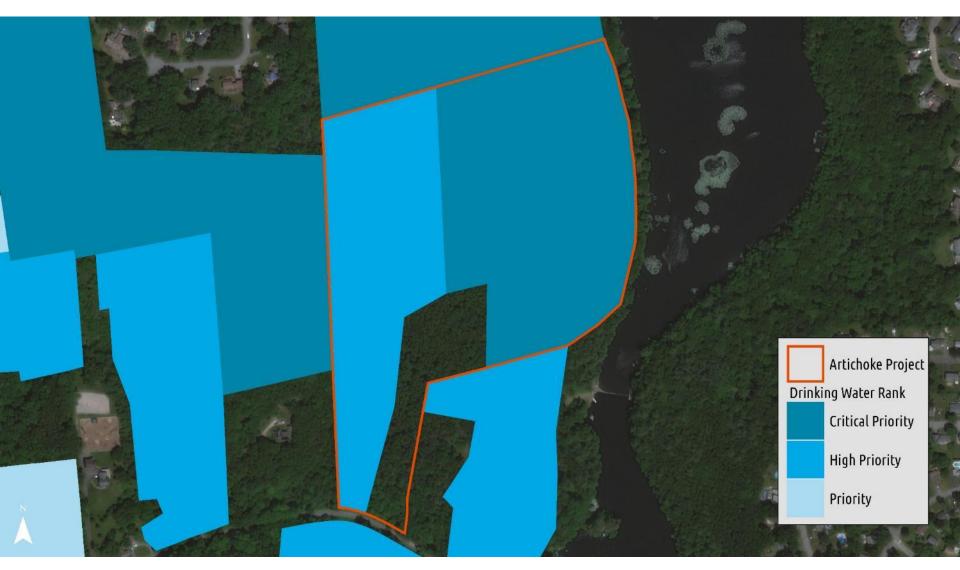




Drinking Water Results













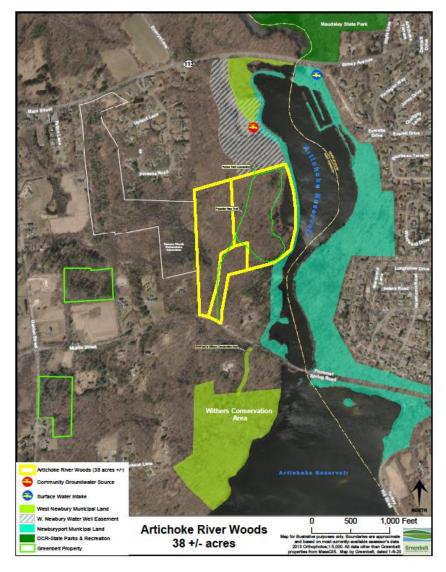








Artichoke River Woods, West Newbury



A conservation acquisition partnership:

City of Newburyport
Town of West Newbury
Dept. of Conservation & Recreation
Division of Conservation Services
Greenbelt



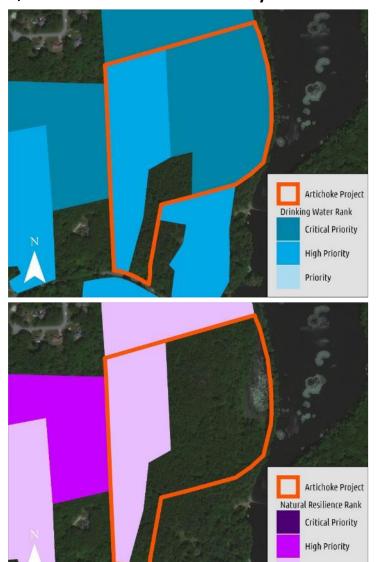


Artichoke River Woods, West Newbury

Why is this important to preserve?

- Drinking Water
- Flood Protection
- Natural Resilience
- Trails / Connectivity





Priority



Artichoke River Woods, West Newbury

High Natural Resource Values Attract Funding

- State Drinking Water Supply Grant
- Community Preservation Act
- Municipal Vulnerability Planning program
- State's LAND grant program

Purchase Price: \$985,000 Transaction Costs: \$30,000 Parking & Signs: \$7,500

TOTAL: \$1,022,500

Funding Sources:

Drinking Water Supply Grant: \$300,000
Newburyport CPA: \$225,000
W. Newbury CPA: \$175,000
DCR: \$175,000
Greenbelt: \$147,500





How can Greenbelt help?

- Facilitate conservation projects
 - Assist with grant applications
 - Create project maps
 - Public outreach
 - Other project support

- Educational opportunities
- Support local open space planning
- Conservation technical assistance
- Provide prioritization maps for open space planning and MVP





Questions?

