



Good morning!

Welcome to CTAP Track IV:

Environmental Protection, Land Use, and Open Space



CTAP Planning Conference, December 2, 2006

The Jordan Institute

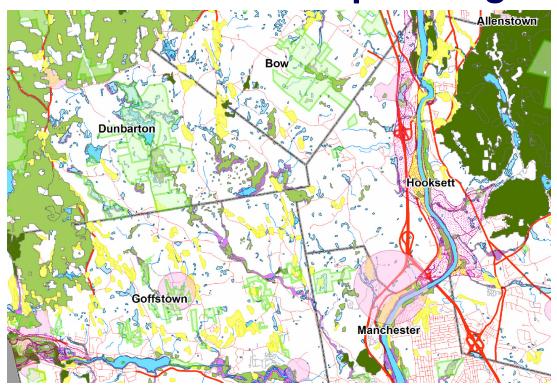
How to Prioritize Environmental Protection, Land Use, and Open Space Protection:

A Regional Conservation Framework & Natural Services Network

JUST RELEASED!

The Jordan Institute

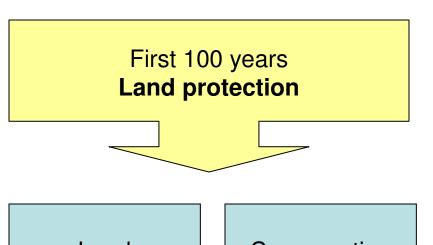
The Natural Services Network:
A foundation for planning



Presented by Kate Hartnett and Maura Leahy, The Jordan Institute; Carol Foss, NH Audubon; Fay Rubin, UNH Complex Systems Research Center



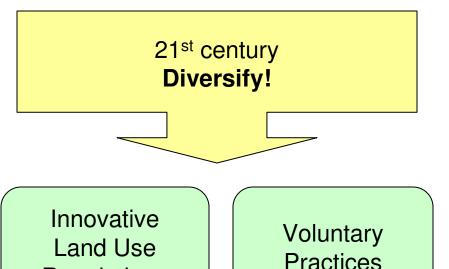
NH Response to Growth



Now add...

Land Acquisition

Conservation Easements



Regulations

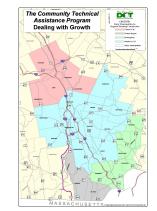
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- What does CTAP stand for?
 - •Who sponsors CTAP?
- •How many towns are in the CTAP region?
- •How many people are expected to move into the CTAP region by 2040?
 - •When did CTAP planning begin?
 - •What's the CTAP budget?
 - •Why does CTAP exist?







The next 75 minutes:

- 1. Introduction to natural services
- 2. Natural Services Network for the CTAP region
- 3. Exploring the NSN in your town
- 4. The NSN in practice
- 5. Thoughts for CTAP





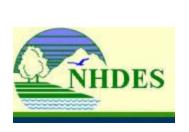


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Natural Services Network Partners



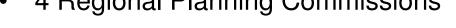




NEW HAMPSHIRE



- The Jordan Institute
- NH Audubon
- NH Department of Transportation
- 4 Regional Planning Commissions



- NH Department of Environmental Services
- NH Fish and Game Dept.









Rockingham **Planning**

Commission





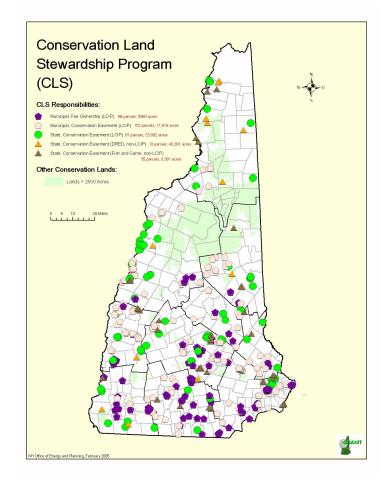
Consider three categories of land...





DEVELOPED LAND







PROTECTED LAND





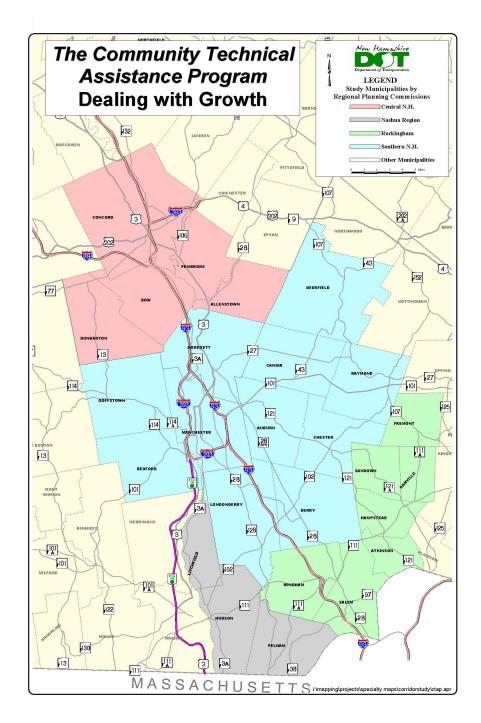
"LAND IN PLAY"





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Natural services are the benefits nature provides "free" to humans:

"fundamental life-support services without which human civilizations would cease to thrive." (Daily et al. 1997)









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For instance, nature:



- Supplies, protects, and stores water
- Prevents soil erosion
- Pollinates crops and other plants
- Cycles nutrients
- Gives us opportunities for recreation



Economic value of natural services

How much money do people spend on recreation, wildlife observation, birding, etc?





How much does it cost to build dams, filter water, recover from floods, etc?



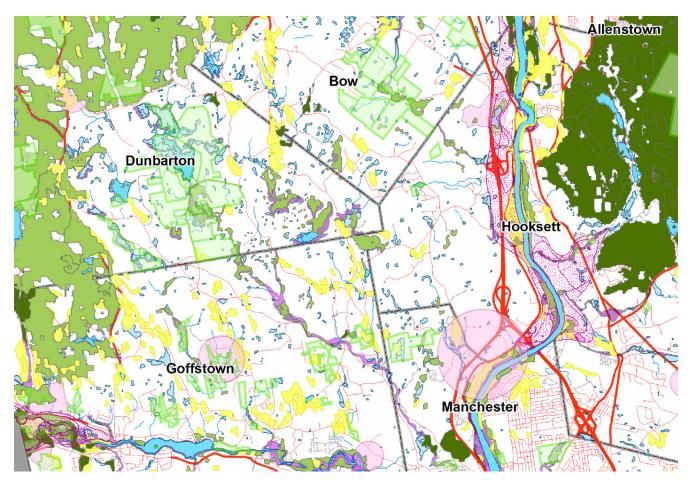
Valued at \$6.3 billion for all of Massachusetts... Over **\$200 million** in the CTAP region!*

Mass Audubon, "Losing Ground," 2003. MA value per acre extrapolated to acreage in CTAP region.

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Natural Services Network





Natural Services Network

Water supply



Flood storage
Economically
important soils
Wildlife habitat

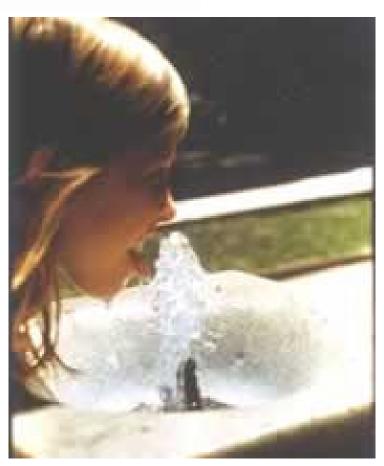




+ Hydrologic and wildlife **connectivity**

+ **Strategic overlays**: Developed, protected, unbuildable, working farms, local conservation priorities...

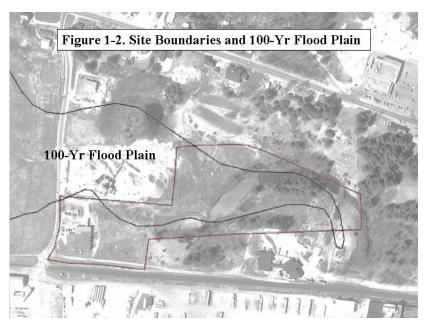




Water supply lands Highly transmissive

Favorable gravel wells





Flood storageFEMA mapsUSFWS National Wetland Inventory





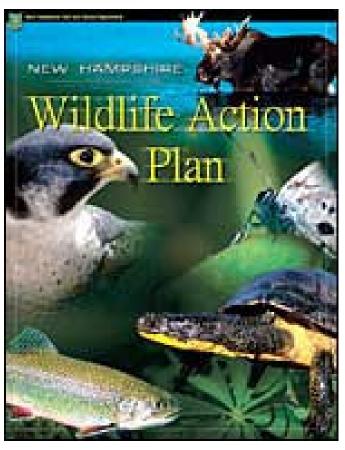
Economically important soils

- Statewide importance
 - Prime agricultural







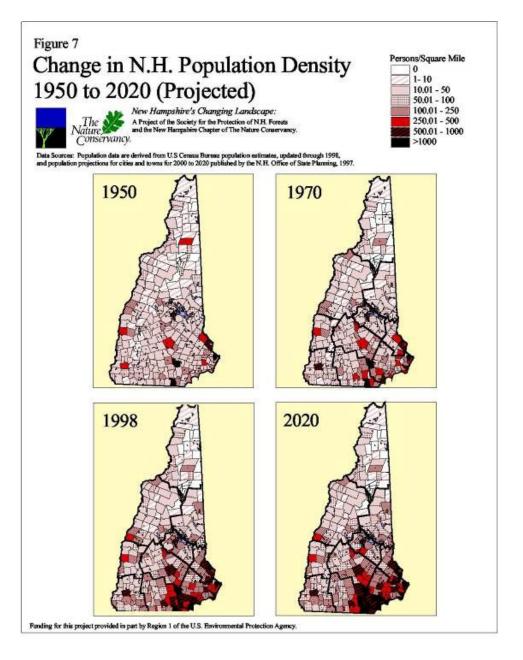


Significant wildlife habitat

- Statewide priority
- Ecoregional priority

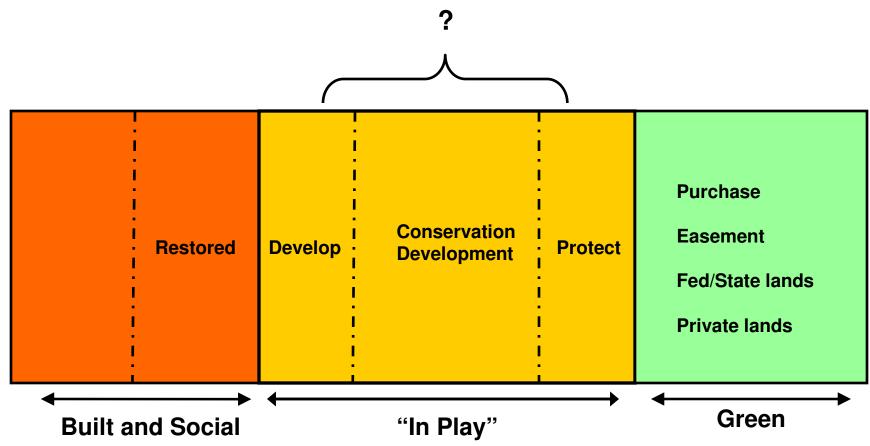


Why is the NSN important in the CTAP region?



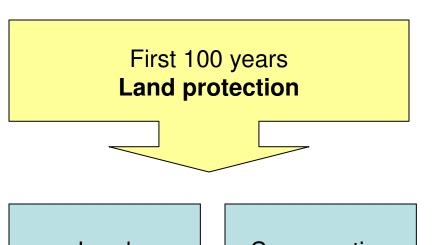


Deciding Future Land Use





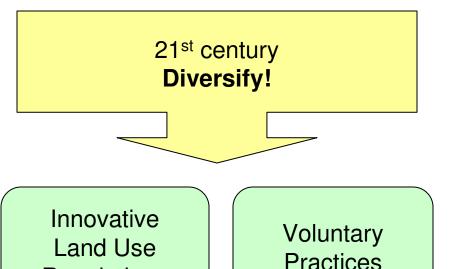
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What does the Natural Services Network look like in YOUR town?



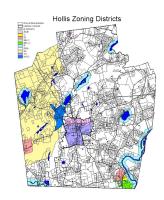
The Natural Services Network in practice



Potential Uses of NSN

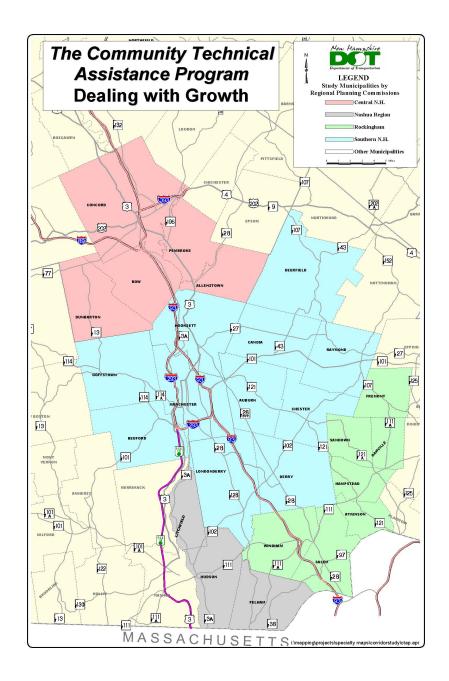
- Local & regional land protection priorities
 - Zoning district overlays
 - Framework for open space plans
- Natural resource chapter of master plans
 - Alternate build-outs with NSN base
 - Strategic overlay analyses
 - Initial scope/design with developers







Thoughts for CTAP...





For more information...

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